

The Maryland Agricultural College

QUARTERLY.

Entered at College Park Post Office as Second-Class Matter.

No. 31.

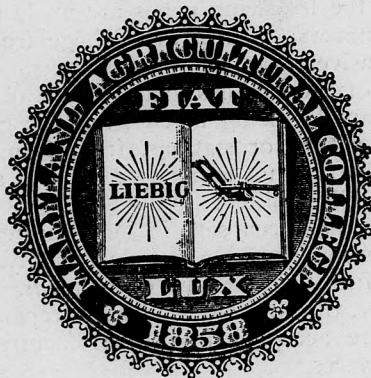
FEBRUARY.

1906.

PUBLISHED BY THE COLLEGE.

R. W. SILVESTER, ... **President.**

Edited by H. B. McDONNELL, Professor of Chemistry.



**Published for the Benefit of Agriculture and Sent Free
to Any One Desiring a Copy.**

(Extra Copies 5 cents each, by mail, or \$4.00 per hundred, by express.)

Issued in the Months of February, May, August and November.

ADDRESS

**Chemical Department, Maryland Agricultural College,
COLLEGE PARK, MD.**

ANALYSIS OF

Commercial Fertilizers Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF
THE MARYLAND AGRICULTURAL COLLEGE.

DR. H. B. McDONNELL, State Chemist.

*R. H. KERR, B. S., Assistant Chemist.

WM. R. WHARTON, M. A., Assistant Chemist.

J. J. MORGAN, B. S., Assistant Chemist.

R. C. WILEY, B. S., Assistant Chemist.

The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from *August, 1905, to January, 1906*, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars, or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all the samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer his name appears after the place of sampling. No sample is analyzed unless fully described on blanks furnished by this department. The description is not sent in, however, till after the analysis is reported.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid" are percentages, or pounds per hundred. To get pounds per ton multiply the figures by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The columns headed "No." contain the respective numbers by which the samples are known in the laboratory. In writing to the Chemical Department in regard to any analysis the number should always be given. The samples are numbered consecutively on the books of the office, but are arranged alphabetically for publication, which accounts for the mixing of the numbers.

*Resigned February 1 to accept position with U. S. Dept. of Agriculture.

To get "Total" phosphoric acid add the "Insoluble" and the "Available" phosphoric acid.

The "Comparative Value Found" and the "Comparative Value Guaranteed" are calculated, the former from the analysis found, the latter from the analysis guaranteed on the bags, using the following schedule:

In Mixed Fertilizer:

For potash (K_2O), in forms free from muriate	6 cts. per pound.
For Potash (K_2O), as muriate, or Kainit.....	5 cts. per pound.
For Available Phosphoric Acid.....	5 cts. per pound.
For Insoluble Phosphoric Acid.....	2 cts. per pound.
For Insoluble Phosphoric Acid when from S. C. Rock.....	1 ct. per pound.

In Dissolved S. C. Rock:

Available Phosphoric Acid	4 cts. per pound.
---------------------------------	-------------------

In Ground Bone:

For Nitrogen, calculated as Ammonia, in "Fine" Bone.....	16 cts. per pound.
For Nitrogen, calculated as Ammonia, in "Fine Medium" Bone....	14 cts. per pound.
For Nitrogen, calculated as Ammonia, in "Medium" Bone.....	12 cts. per pound.
For Nitrogen, calculated as Ammonia, in "Coarse" Bone.....	10 cts. per pound.
For Phosphoric Acid in "Fine" Bone.....	5 cts. per pound.
For Phosphoric Acid in "Fine Medium" Bone.....	4 cts. per pound.
For Phosphoric Acid in "Medium" Bone.....	3 cts. per pound.
For Phosphoric Acid in "Coarse" Bone.....	2 cts. per pound.

In Tankage and Ground Fish:

For Nitrogen, calculated as Ammonia.....	15 cts. per pound.
For Phosphoric Acid	3 cts. per pound.

In using the above schedule *all fertilizers containing less than one per cent. of ammonia will be given the rock valuation of four cents per pound on the available phosphoric acid.*

The "comparative values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use; this varies considerably, depending on the market prices of the ingredients, freight, commissions, size of order, cash or credit, etc.

Sliding-scale guarantees (the use of a maximum as well as a minimum guarantee), as "ammonia 1 to 3 per cent." is unlawful. The penalty for the first offense is \$100 fine.

It is unlawful to sell any brand of commercial fertilizer before the license for the same has been obtained from the Comptroller. When the license is paid by the manufacturer it is not necessary for his agents to obtain another license for the same brands. If, however, the manufacturer resides out of the State, and does not pay the license, each agent selling the goods, or offering the same for sale, is held responsible for the license.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	* Place of Sampling. (and Sampler, when not the College.)
14640	American Agrl. Chem. Co., New York, N. Y.	Big Crop Phosphate.....	Baltimore.....
14643	" " "	Buyers' Choice Acid Phos- phate.	Baltimore.....
14660	" " "	Dissolved Animal Bone...	Ellicott City.....
14638	" " "	Fine Ground Bone.....	Baltimore.....
14721	" " "	Gem Alkaline Phosphate.	Keedysville.....
14733	" " "	Orchilla Guano.....	Snow Hill.....
14661	" " "	Pure Ground Bone.....	Ellicott City.....
14662	" " "	Pure Ground Bone.....	Ellicott City.....
14734	" " "	Wide-Awake Phosphate..	Union Mills.....
14677	A. A. C. Co. (Canton), Bal- timore, Md.	Baker's Diss. S. C. Bone.	Baltimore.....
14735	" " "	Baker's Fish Mixture....	Salisbury.....
14678	" " "	Baker's Spec. Wheat Corn and Grass Mixture.	Baltimore.....
14798	" " "	Eagle Phosphate.....	Baltimore.....
14736	" " "	Harrow Brand Crop Grower.	Melrose.....
14787	" " "	Patron's Bone Phosphate.	Bel Air.....
14737	" " "	Soluble Alkaline Bone...	Snow Hill.....
14679	" " "	Soluble Bone and Potash.	Baltimore.....
14635	A. A. C. Co. (Detrick), Bal- timore, Md.	Ammoniated Bone Phos- phate.	Baltimore.....
14696	" " "	Bone and Potash, 16x4 Mixture.	Baltimore.....
14636	" " "	Dissolved S. C. Bone.....	Baltimore.....
14799	" " "	Fish Mixture.....	Baltimore.....
14639	" " "	Imperial Compound	Baltimore.....
14637	" " "	K. K. K. Kangaroo Kom- plete Kompound.	Baltimore.....

FERTILIZER ANALYSES.

5

No.	NITROGEN Calculated as AMMONIA.		POTASH. K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14640	.....	.....	5.20	5.00	0.80	.....	7.90	8.00	\$11.68	\$11.40
14643	.....	.....	.....	.....	0.60	1.00	15.15	14.00	12.12	11.20
14660	2.57	2.50	.....	.....	3.95	.....	12.09	12.00	22.67	20.75
14638	3.25	3.00	.....	.....	24.40*	22.80*	.....	.....	31.58	.....
14721	.....	.....	3.07	3.00	0.63	.....	6.41	6.00	8.33	7.80
14733	.....	.....	.....	.....	11.37	14.00	5.10	.....	8.63	5.60
14661	4.02	4.00	.....	.....	21.65*	20.60*	.....	.....	29.42	.....
14662	3.73	4.00	.....	.....	20.40*	40.00†	.....	.....	27.31	.....
14734	1.06	1.00	3.17	3.00	1.45	.....	9.04	9.00	16.50	15.50
14677	.....	.....	.....	.....	0.75	.....	14.26	14.00	11.41	11.20
14735	1.91	2.00	2.42	2.00	1.30	.....	8.03	8.00	17.66	17.00
14678	1.10	1.00	2.03	2.00	0.98	.....	9.05	9.00	15.32	14.50
14798	1.02a	1.00	1.35	1.00	1.70	.....	7.04	7.00	12.64	11.50
14736	1.03	1.00	1.24	1.00	1.40	.....	7.69	8.00	13.10	12.50
14787	2.06	2.00	2.66	2.50	6.35	.....	7.25	5.00	19.66	14.50
14737	.....	.....	3.05	3.00	0.45	.....	12.13	12.00	12.84	12.60
14679	.....	.....	2.03	2.00	0.53	.....	10.04	10.00	10.17	10.00
14635	1.60	1.50	2.23b	2.00b	1.15	.....	8.21	9.00	16.95	16.65
14696	.....	.....	2.22	2.00	0.90	.....	11.04	11.00	11.23	10.80
14636	.....	.....	.....	.....	0.55	.....	14.61	14.00	11.69	11.20
14799	2.01	2.00	2.22	2.00	1.38	.....	7.71	8.00	17.52	17.00
14639	1.06	1.00	2.16	2.00	1.25	.....	8.03	8.00	14.40	13.50
14637	2.02	2.00	3.06	3.00	2.08	.....	8.84	8.00	19.80	18.00

*Total Phosphoric Acid.
a. Contains Nitrate of Soda.

†"Total Bone Phosphate."
b. Contains Sulfate of Potash.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
14738	A. A. C. Co. (Detrick), Baltimore, Md.	P. & B. Special Fertilizer.	Baltimore.....
14697	" " "	Paragon Amm'nat'd Bone Phosphate.	Cumberland.....
14739	" " "	Quickstep Bone Phosphate	Salisbury
14777	" " "	Royal Crop Grower.....	Baltimore.....
14680	" " "	Soluble Bone Phosphate and Potash.	Baltimore.....
14740	" " "	Special Mixture	Baltimore.....
14770	" " "	Victory Alkaline Bone....	Millington.....
14663	A. A. C. Co. (Lazaretto), Baltimore, Md.	Ammoniated Bone Phosphate.	Ellicott City.....
14823	" " "	Bone and Potash	Providence.....
14664	" " "	Bone Compound.....	Ellicott City.....
14665	" " "	Crop Grower.....	Ellicott City.....
14629	" " "	Dissolved Bone and Potash	Baltimore.....
14666	" " "	Dissolved Bone Phosphate	Ellicott City.....
14778	" " "	Early Trucker	Stevenson.....
14698	" " "	Excelsior A. A. A.....	Baltimore.....
14667	" " "	Forsythe & Linthicum Mixture.	Ellicott City.....
14681	" " "	H. G. Bone and Potash..	Baltimore.....
14668	" " "	H. G. Dissolved Bone and Potash.	Ellicott City.....
14699	" " "	H. G. Dissolved Bone Phosphate and Potash.	Graceham.....
14649	" " "	Retriever Animal Bone Fertilizer.	Baltimore.....
14700	" " "	Special Wheat and Grass Fertilizer.	Baltimore.....
14854	" " "	Special Wheat and Grass Fertilizer,	Greensboro (J. H. Swann).
14722	A. A. Co. (Maryland), Baltimore, Md.	Alkaline Bone.....	Smithburg.....

FERTILIZER ANALYSES.

7

No.	NITROGEN Calculated as AMMONIA.		POTASH K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14738	.....	.....	3.02	3.00	0.30	.....	11.91	12.00	\$12.61	\$12 60
14697	1.06	1.00	1.37	1.00	1.28	.....	6.85	7.00	12.44	11 50
14739	3.03	3.00	4.50	4.00	2.09	.....	8.01	8.00	24.06	22.50
14777	2.02	2.00	2.12	2.00	1.08	.....	8.10	8.00	17.72	17.00
14680	.....	.....	2.03	2.00	0.53	.....	9.80	10.00	9.98	10.00
14740	1.06	1.00	1.48	1.00	1.65	.....	7.79	9.00	13.64	13.50
14770	.....	.....	5.55	5.00	1.35	.....	11.77	12.00	15.24	14.60
14663	1.08	1.00	2.13	2.00	1.60	.....	7.66	8.00	14.21	13.50
14823	.....	.....	2.16	2.00	0.55	.....	11.39	11.00	11.38	10.80
14664	1.35	1.25	3.16	3.00	1.38	.....	9.03	9.00	17.47	16.38
14665	2.04	2.00	2.37	2.00	1.53	.....	7.84	8.00	17.96	17.00
14629	.....	.....	2.21	2.00	0.83	.....	10.55	10.00	10.82	10.00
14666	.....	.....	.....	.....	0.50	.....	14.42	14.00	11.54	11.20
14778	4.86	5.00	5.10	5.00	0.83	.....	7.47	7.00	29.91	29.50
14698	1.14	1.00	1.43	1.00	1.35	.....	6.86	7.00	12.82	11.50
14667	2.27	2.25	4.02	4.00	3.55	4.50	10.25	9.00	23.64	22.68
14681	.....	.....	4.42	5.00	0.50	.....	10.49	10.00	12.91	13.00
14668	.....	.....	5.02	5.00	0.33	.....	11.02	11.00	13.91	13.80
14699	.....	.....	3.02	3.00	0.53	.....	11.93	12.00	12.67	12.60
14649	2.42	2.25	4.07	4.00	3.20	4.50	10.47	9.00	24.29	22.68
14700	1.17	1.00	4.03	4.00	1.68	.....	7.80	8.00	16.60	15.50
14854	1.06	1.00	4.22	4.00	1.10	.....	8.05	8.00	16.42	15.50
14722	.....	.....	3.08	3.00	0.93	.....	12.04	11.00	12.90	11.80

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
14723	A. A. C. Co. (Maryland), Baltimore, Md.	Bone Super Phosphate...	Smithburg
14724	" " "	Dissolved S. C. Bone....	Smithburg
14725	" " "	Sangston Cereal and Plant Food.	Smithburg
14800	" " "	Tornado Fertilizer.....	Baltimore.....
14701	A. A. C. Co. (Nickerson), Easton, Md.	Acid Phosphate.....	Baltimore.....
14801	" " "	Alkaline Bone and Potash.	Baltimore.....
14702	" " "	Dissolved Bone and Potash	Baltimore.
14796	" " "	Eastern Shore Domestic Guano.	Easton.....
14802	" " "	English Mixture.....	Baltimore.....
14726	" " "	Nickerson Mixture.....	Hancock
14703	A. A. C. Co. (Packer's Union, Rutland, Vt.	American Wheat and Rye Grower.	Loys
14704	" " "	Banner Wheat Grower...	Loys
14705	" " "	Universal Fertilizer.....	Loys
14803	A. A. C. Co. (Reese), Baltimore, Md.	Challenge Crop Grower..	Baltimore.....
14879	" " "	Rock and Potash, 12-5....	Cecilton..... (J. P. Wilson.)
14804	A. A. C. Co. (Susquehanna), Baltimore, Md.	Alkaline Bone Phosphate.	Baltimore.....
14682	" " "	Ammoniated Bone Phosphate.	Baltimore.....
14805	" " "	Grain and Grass Producer.	Baltimore.
14648	" " "	H. G. Bone and Potash...	Baltimore
14771	" " "	Potato and Tobacco Fertilizer.	Ridgely
14881	" " "	Potato and Tobacco Fertilizer.	Ridgely
14821	" " "	Pure Bone Phosphate....	(J. M. Short.) Baltimore
14741	" " "	Superior Rock Phosphate.	Baltimore

FERTILIZER ANALYSES.

9

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14723			2.39	2.00	0.65		10.25	10.00	\$ 10.72	\$10.00
14724					0.48		14.58	14.00	11.66	11.20
14725	1.60	1.50	2.26	2.00	1.53		8.66	9.00	17.13	16.25
14800			4.84	5.00	1.03		12.08	12.00	14.71	14.60
14701					0.95		14.05	14.00	11.24	11.20
14801			2.09	2.00	1.05		10.03	10.00	10.32	10.00
14702			5.11	5.00	0.33		12.15	12.00	14.90	14.60
14796	2.01	2.00	3.34	3.00	2.60		8.02	8.00	19.44	18.00
14802	1.19a	1.00	1.60	2.00	1.63		8.25	8.00	14.67	13.50
14726	0.68	0.50	2.19	2.00	0.73		9.22	8.00	12.10	10.15
14703	1.04	1.00	2.11	2.00	1.40		8.01	8.00	14.32	13.50
14704			2.17	2.00	0.60		9.59	10.00	9.96	10.00
14705	1.04	1.00	4.12	4.00	1.03		7.82	8.00	15.99	15.50
14803	1.05a	1.00	2.32	2.00	0.95		8.26	8.00	14.64	13.50
14879			4.80	5.00	0.40		12.65	12.00	15.00	14.60
14804			2.01	2.00	0.98		10.08	10.00	10.27	10.00
14682	2.03	2.00	2.15	2.00	1.62		8.02	8.00	17.93	17.00
14805			3.14	3.00	1.05		11.80	12.00	12.79	12.60
14648			5.09	5.00	0.45		11.78	12.00	14.60	14.60
14771	1.90	2.00	5.01	5.00	1.30		7.63	8.00	19.81	20.00
14881	2.01	2.00	5.03	5.00	1.45		7.64	8.00	20.29	20.00
14821	2.01	2.00	2.38	2.00	3.70		8.75	9.00	19.65	18.00
14741					0.65		14.66	14.00	11.73	11.20

a. Contains Nitrate of Soda.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
14683	A. A. C. Co. (Susquehanna), Baltimore, Md.	XX V. Phosphate	Baltimore.....
14779	A. A. C. Co. (Tygert Allen), Philadelphia, Pa.	Standard Bone Phosphate.	Baltimore.....
14742	" " "	Star Soluble Bone and Potash.	Pocomoke.....
14806	A. A. C. Co. (Wheeler), Rutland, Vt.	Bone and Potash	Baltimore.....
14623	" " "	Potato Manure.....	Baltimore.....
14807	" " "	Royal Wheat Grower.	Baltimore.....
14706	" " "	Wheat and Clover Fertilizer.	Baltimore.....
14669	A. A. C. Co. (Zell), Baltimore, Md.	Ammoniated Bone Super Phosphate.	Laurel.....
14600	" " "	Dissolved Bone Phosphate	Baltimore.....
14727	" " "	Economizer Phosphate ...	Keedysville.....
14601	" " "	Electric Phosphate.....	Baltimore.....
14642	" " "	Hustler Phosphate	Baltimore.....
14862	" " "	Hustler Phosphate	Greensboro..... (J. B. Orrell)
14641	" " "	Little Giant.....	Baltimore.....
14650	Alexandria Fertz. & Chem. Co., Alexandria, Va.	Raw Bone Meal.....	White's Ferry
14808	Armour Fertilizer Works, Baltimore, Md.	Acidulated Bone Meal....	Baltimore.....
14670	" " "	Bone Meal.....	Laurel.....
14625	" " "	Cereal Phosphate.....	Baltimore.....
14707	" " "	Dissolved Bone.....	Woodsboro.....
14602	" " "	Fruit and Root Crop Special.	Baltimore.....
14603	" " "	Grain Grower.....	Baltimore.....
14743	" " "	Horse Special.....	Baltimore.....
14856	" " "	Horse Special	Greensboro..... (G. J. Kibler).

FERTILIZER ANALYSES.

11

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14683	1.03	1.00	1.25	1.00	1.33	.....	8.08	8.00	\$13.47	\$12.50
14779	2.01	2.00	2.57	2.00	1.45	.....	7.92	8.00	18.11	17.00
14742	.....	.....	2.08	2.00	0.48	.....	10.49	10.00	10.57	10.00
14806	.....	.....	3.13	3.00	1.13	.....	11.48	12.00	12.54	12.60
14623	2.52	2.50	3.31	3.00	1.83	.....	8.02	8.00	20.88	19.75
14807	1.07a	1.00	2.32	2.00	1.40	.....	7.59	8.00	14.22	13.50
14706	.....	.....	2.09	2.00	0.68	.....	10.05	10.00	10.27	10.00
14669	2.01	2.00	2.23	2.00	2.35	.....	8.23	8.00	18.44	17.00
14600	.....	.....	.....	.....	0.53	.....	14.40	14.00	11.52	11.20
14727	1.08a	1.00	2.36	2.00	1.00	.....	9.03	8.00	15.57	13.50
14601	.....	.....	2.20	2.00	0.55	.....	10.02	10.00	10.33	10.00
14642	1.15	1.00	3.06	3.00	1.08	.....	9.38	9.00	16.90	15.50
14862	1.03	1.00	3.23	3.00	1.50	.....	8.96	9.00	16.40	15.50
14641	1.07	1.00	1.34	1.00	0.85	.....	6.91	7.00	12.34	11.50
14650	3.58	4.00	.....	.....	20.90*	21.50*	.....	.....	28.43	.....
14808	2.03	2.00	.....	.....	4.68	.....	12.31	11.00	21.29	18.00
14670	3.50	3.00	.....	.....	25.65*	24.00*	.....	.....	34.55	.....
14625	.....	.....	.....	.....	1.35	.....	10.72	10.00	8.58	8.00
14707	2.01	2.00	.....	.....	2.00	.....	11.05	10.00	18.89	17.00
14602	2.64	2.00	5.46	5.00	1.45	.....	8.74	8.00	24.02	20.00
14603	2.02	2.00	2.44	2.00	1.93	.....	8.30	8.00	18.58	17.00
14743	1.66	1.50	3.06	3.00	1.45	.....	11.67	9.00	21.12	17.25
14856	1.69	1.50	3.14	3.00	3.35	.....	11.46	9.00	21.86	17.25

a. Contains Nitrate of Soda.
* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling. (and Sampler when not the College.)
14744	Armour Fertilizer Works, Baltimore, Md.	Phosphate and Potash....	Baltimore.....
14863	" " "	Phosphate and Potash....	Easton (W. J. Elliott.)
14868	" " "	Phosphate and Potash....	Vienna (A. Webb.)
14604	" " "	Phosphate and Potash No. 1.	Baltimore.....
14630	" " "	Phosphate and Potash No. 1.	Baltimore.....
14605	" " "	Phosphate and Potash No. 2.	Baltimore.....
14684	" " "	Phosphoric Acid and Pot- ash.	Baltimore.....
14685	" " "	Raw Bone Meal.....	Baltimore.....
14606	" " "	Royal Ammoniated Bone.	Baltimore.....
14608	" " "	Special Mixture.....	Baltimore.....
14850	" " "	Special Mixture.....	Greensboro. (N. Horsey of S. H.)
14865	" " "	Special Mixture.....	Massey
14607	" " "	Star Phosphate	Baltimore.....
14745	" " "	Tomato Grower.....	Mataponi.....
14609	" " "	Wheat, Corn and Oats Special.	Baltimore.....
14610	" " "	Wheat Special	Baltimore.....
14611	Baltimore Fertilizer Co., Baltimore, Md.	H. G. Soluble Bone and Potash.	Baltimore.....
14816	" " "	Homestead	Baltimore.....
14612	" " "	Honest Acid Phosphate..	Baltimore.....
14746	" " "	Honest Bone Phosphate..	Berlin.....
14651	" " "	Honest Crop Grower....	Silver Spring.....
14809	" " "	Honest Harvest.....	Baltimore.....
14810	" " "	Honest Success.....	Baltimore.....

FERTILIZER ANALYSES.

13

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14744			4.60	5.00	2.15	.....	12.58	12.00	\$15.09	\$14.60
14863			4.83	5.00	1.10	.....	12.24	12.00	14.84	14.60
14868			5.08	5.00	2.18	.....	12.20	12.00	15.28	14.60
14604			2.37	2.00	0.83	.....	10.47	10.00	10.92	10.00
14630			2.25	2.00	0.63	.....	10.65	10.00	10.90	10.00
14605			2.37	5.00	0.68	.....	10.40	8.00	10.83	11.40
14684			5.03	5.00	0.75	.....	10.59	10.00	13.65	13.00
14685	4.56	4.50			22.55*	22.00*			30.23	
14606	1.04	1.00	4.47	4.00	1.40	.....	8.28	8.00	16.95	15.50
14608	0.51	0.50	1.22	1.00	0.68	.....	8.35	8.00	9.83	9.15
14850	1.67	1.50	3.36	3.00	3.63	.....	11.51	9.00	22.17	17.25
14865	1.76	1.75	5.41	5.00	2.58	.....	11.32	12.00	23.92	23.13
14607					1.35	.....	14.58	14.00	11.66	11.20
14745	2.06	2.00	2.30	2.00	1.48	.....	8.50	8.00	18.60	17.00
14609	1.08	1.00	1.05	1.00	0.78	.....	8.40	7.00	13.54	11.50
14610	1.19	1.00	1.74	2.00	0.80	.....	8.22	8.00	14.45	13.50
14611			2.53	2.00	2.80	.....	8.82	10.00	10.15	10.00
14816	1.54	1.50	2.14	2.00	1.13	.....	11.69	8.00	19.67	15.25
14612					0.65	.....	14.73	14.00	11.78	11.20
14746	0.27	0.25	1.42	1.00	2.73	.....	7.90	7.00	9.24	7.48
14651	1.22	1.00	1.10	1.00	4.43	.....	7.14	8.00	14.28	12.50
14809	1.54	1.00	3.35	2.50	3.55	.....	7.00	9.00	17.16	15.00
14810	1.07	1.00	3.94	4.00	0.65	.....	8.64	7.00	16.59	14.50

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
14624	Baltimore Fertilizer Co., Baltimore, Md.	Honest Standard.....	Baltimore.....
14613	" " "	Old Honesty—Your Money's Worth.	Baltimore.....
14817	" " "	Revenue—A Sure Provider.	Baltimore.....
14622	Baltimore Pulverizing Co., Baltimore, Md.	Ammoniated Butchers' Bone.	Baltimore.....
14818	" " "	Ammoniated Excelsior Fertilizer.	Baltimore.....
14644	" " "	Farmers' Favorite Fertilizer.	Baltimore.....
14780	" " "	General Crop Grower....	Baltimore.....
14614	" " "	H. G. Wheat Compound..	Baltimore.....
14652	" " "	(Star) Montgomery Special.	Washington Grove.
14772	" " "	Penniman's (Star) Excelsior Fertilizer.	Rock Hall.....
14653	" " "	Penniman's (Star) Special Guano No. 1.	Washington Grove.
14747	" " "	Pure Raw Bone.....	Baltimore.....
14708	Baugh & Sons Co., Baltimore, Md.	Ammoniated Soluble Alkaline.	Monrovia.....
14632	" " "	Animal Bone and Potash Compound.	Baltimore.....
14857	" " "	Bone Tankage.....	Linwood.....
14633	" " "	Complete Animal Bone Fertilizer.	Baltimore.....
14788	" " "	Corn Fertilizer.....	Aberdeen.....
14686	" " "	Covey's Standard Bone Phosphate.	Baltimore.....
14628	" " "	Double Eagle \$25.00 Phosphate.	Baltimore.....
14819	" " "	Excelsior Corn and Peanut Guano.	Baltimore.....
14748	" " "	Excelsior Super-Phosphate.	Baltimore.....
14709	" " "	Export Bone with Potash.	Baltimore.....
14749	" " "	Fish Mixture	Baltimore.....

FERTILIZER ANALYSES.

15.

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14624	1.30	1.25	3.42	3.00	1.33	.....	9.83	10.00	\$18.33	\$17.38
14613	0.85	0.50	2.02	2.00	3.40	.....	7.33	8.00	11.54	10.15
14817	2.82	3.00	5.48	6.00	1.65	.....	7.90	7.00	23.91	23.50
14622	1.35	1.50	1.62	1.50	2.73	.....	9.21	9.00	16.65	15.75
14818	1.04	1.00	2.60	5.00	1.25	.....	10.55	10.00	17.29	18.50
14644	1.01	1.00	1.71	1.50	1.60	.....	6.24	5.50	12.13	10.50
14780	1.26	1.00	2.23	3.00	1.33	.....	7.85	7.00	15.03	13.50
14614	1.45	2.00	2.13	2.00	2.15	.....	9.56	8.00	17.64	17.00
14652	0.87	1.00	2.03	2.00	1.30	.....	10.86	10.00	14.03	15.50
14772	.....	.....	3.03	2.50	0.45	.....	9.55	10.00	10.76	10.50
14653	1.03	1.00	1.28	1.00	2.43	.....	7.80	6.00	13.66	10.50
14747	2.90	3.00	.....	.....	22.20*	45.00†	.....	.....	28.18	.....
14708	1.06	0.50	2.61	2.00	0.95	2.50	8.77	8.00	15.47	10.65
14632	2.05	2.00	2.71	2.00	1.48	.....	8.67	8.00	19.15	17.00
14857	9.59	9.50	.....	.....	2.20*	.....	.....	.....	30.09	28.50
14633	2.02	2.00	5.09	5.00	1.95	2.00	8.92	8.00	21.86	20.80
14788	1.30	1.00	4.04	4.00	2.80	.....	8.45	8.00	18.16	15.50
14686	1.31	1.00	3.66	3.50	2.73	2.00	9.00	12.00	18.34	19.80
14628	2.04	2.00	1.55	1.00	2.10	.....	9.27	8.00	18.80	16.00
14819	1.04	1.00	4.44	4.00	2.35	.....	8.17	8.00	17.19	15.50
14748	1.07	1.00	4.04	4.00	1.88	3.00	8.58	8.00	17.12	16.70
14709	2.11	2.00	2.62	2.00	4.53	23.00*	9.19	.....	21.01	.....
14749	2.35	2.00	3.33	2.00	1.33	.....	8.81	8.00	20.90	17.00

* Total Phosphoric Acid.

† Total Bone Phosphate.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
14615	Baugh & Sons Co., Baltimore, Md.	General Crop Grower	Baltimore
14750	" " "	Genuine Lobos Peruvian Guano.	Baltimore
14789	" " "	Grand Rapid Guano	Belair
14616	" " "	H. G. Acid Phosphate...	Baltimore
14858	" " "	H. G. Acid Phosphate. .	Linwood
14820	" " "	H. G. Potato Guano	Baltimore
14634	" " "	Peninsula Grain Producer.	Baltimore
14751	" " "	Potato and Truck Special.	Baltimore
14752	" " "	Potato Fertilizer	Mataponi
14671	" " "	Pure Dissolved Animal Bone.	Laurel
14728	" " "	Pure Dissolved Animal Bone.	Williamsport
14654	" " "	Raw Bone Meal	Gaithersburg
14888	" " "	Raw Bone Meal	Mt. Airey
14617	" " "	Soluble Alkaline Super-Phosphate.	(J. N. Clay). Baltimore
14861	" " "	Special Mixture	New London
14889	" " "	Special Mixture	(C. D. Walker.) Hagerstown
14631	" " "	Special Potato Manure...	(M. Wingert.) Baltimore
14618	" " "	Wheat Fertilizer for Wheat and Grass.	Baltimore
14883	" " "	Wheat Fertilizer	Mt. Airy
14773	Beck, Walker & Co., Chestertown, Md.	Propagator Super-Phosphate.	(L. S. Day.) Chestertown
14774	" " "	Special Bone Mixture...	Chestertown
14775	" " "	Try-Me Super-Phosphate.	Chestertown
14790	The Berg Co., Philadelphia, Pa.	Raw Bone	Fallston

FERTILIZER ANALYSES.

17

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14615	1.21	1.00	1.51	1.00	2.48	.....	8.53	8.00	\$ 15.27	\$12.50
14750	3.48	3.00	4.01b	3.00b	10.49	18.00*	12.69	.....	33.88	.....
14789	2.66a	3.00	3.44	3.00	2.15	.....	8.37	8.00	21.98	21.50
14616	.....	.....	.....	.....	1.83	.....	14.76	14.00	11.81	11.20
14858	.....	.....	.....	.....	1.45	.....	15.35	14.00	12.28	11.20
14820	4.90	5.00	6.33	7.00	3.10	.....	7.29	6.00	32.01	30.50
14634	1.11	1.00	2.62b	2.00b	0.98	.....	8.24	8.00	15.66	13.90
14751	3.01	3.00	7.51b	7.00b	5.55	.....	7.36	7.00	29.13	25.90
14752	2.01	2.00	2.45	2.00	1.25	.....	8.17	8.00	18.16	17.00
14671	2.73	2.50	.....	.....	2.05	.....	15.09	13.00	25.47	21.75
14728	2.64	2.50	.....	.....	2.23	.....	15.07	13.00	25.20	21.75
14654	4.59	4.25	.....	.....	21.26*	21.50*	.....	.....	32.35	.....
14888	4.49	4.25	.....	.....	21.35*	21.50*	.....	.....	31.97	.....
14617	.....	.....	2.03	2.00	3.48	.....	10.23	10.00	10.91	10.00
14861	2.66	2.50	5.11	3.50	1.45	2.00	11.65	11.50	26.65	24.55
14889	2.06a	2.00	4.83	5.00	1.85	.....	11.43	10.00	24.21	22.00
14631	2.03	2.00	10.89	10.00	2.15	.....	4.58	5.00	23.44	22.00
14618	2.03	2.00	2.64b	2.00b	1.33	.....	8.99	8.00	19.70	17.40
14883	2.15	2.00	2.72	2.00	1.23	.....	8.97	8.00	19.71	17.00
14773	1.89	2.00	2.66	2.50	2.18	.....	9.26	8.00	19.41	17.50
14774	1.02a	1.00	2.34	2.00	2.25	.....	8.33	8.00	15.14	13.50
14775	0.53	0.50	3.42	3.00	3.33	.....	8.53	9.00	12.77	11.95
14790	4.20	4.00	.....	.....	21.55	20.00*	.....	.....	29.18	.....

b. Contains Sulfate of Potash. * Total Phosphoric Acid. a. Contains Nitrate of Soda.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
14791	The Berg Co., Philadelphia, Pa.	Standard Bone Manure...	Fallston.....
14710	A. D. Birely & Son, Ladies- burg, Md.	Ammoniated Bone Phos- phate.	Ladiesburg.....
14626	" " "	Crop Producer.....	Baltimore.....
14711	" " "	Dissolved Animal Bone and Potash.	Ladiesburg.....
14859	" " "	Special Mixture... ..	Taneytown..... (M. Harner.)
14826	Wm. H. Bixler, Hagers- gerstown, Md.	Bone Phosphate.....	Hagerstown.....
14687	J. H. Blocher, Alesia, Md..	Royal Bone and Potash...	Baltimore.....
14672	C. E. Bond, Spencerville, Md.	Acid Phosphate.....	Spencerville.....
14673	" " "	Pure Ground Bone	Spencerville.....
14753	Jas. Bonday, Jr. & Co., Baltimore, Md.	Old Reliable Brand Gen- uine German Kainit.	Crisfield.....
14776	Brumfield & Foster, Colora, Md.	B. & F. Acid Phosphate and Potash.	Barclay.....
14655	The Bryant Fertilizer Co., Alexandria, Va.	Fine Ground Raw Bone ..	Seneca.....
14656	" " "	Formula E.....	Gaithersburg.....
14657	" " "	Queen Ammoniated Dis- solved Bone.	Gaithersburg.....
14674	John L. Clark, Ellicott City, Md.	Special Mixture.....	Ellicott City.....
14675	" " "	Standard Bone Phosphate.	Ellicott City.....
14792	Josiah Cope & Co., Lincoln Uni., Pa.	Ammoniated Bone Phos- phate.	Glen Cove.....
14793	" " "	Ground Steamed Bone....	Glen Cove.....
14794	" " "	Wheat and Grass Grower.	Glen Cove.....
14754	L. E. P. Dennis & Son, Crisfield, Md.	Fish and Potash Mixture No. 2.	Crisfield.....
14627	Joshua W. Dorsey, Ellicott City, Md.	Mixture—D.....	Baltimore.....
14712	Dudley & Carpenter, Balti- more, Md.	Dissolved S. C. Rock....	Baltimore.....
14713	" " "	Special Wheat Mixture..	Baltimore.....

FERTILIZER ANALYSES.

19

No.	NITROGEN Calculated as AMMONIA.		POTASH K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14791	2.54a	3.00	5.48	6.00	4.85	.....	8.87	8.00	\$25.18	\$24.50
14710	0.60	0.50	1.23	1.00	1.73	.....	9.75	8.00	11.48	9.15
14626	.....	.....	2.50	2.00	2.53	1.00	9.17	9.00	10.35	9.40
14711	1.15	1.00	2.28	2.00	2.18	.....	9.85	9.00	17.03	14.50
14859	2.25	2.00	2.30	2.00	2.05	.....	8.45	8.00	19.45	17.00
14826	2.37	1.50	2.67	2.50	3.85	.....	9.16	8.00	21.67	15.75
14687	.....	.....	1.17	1.00	0.33	1.00	9.24	9.00	8.63	8.40
14672	.....	.....	.....	.....	3.88	.....	14.59	14.00	11.67	11.20
14673	4.73	4.50	.....	.....	21.35*	20.00*	.....	.....	29.28	.....
14753	.....	.....	11.13	12.00	.....	.....	.....	.....	.....	.....
14776	.....	.....	5.45	5.00	0.53	.....	9.80	10.00	13.40	13.00
14655	5.05	4.50	.....	.....	21.58*	21.50*	.....	.....	31.92	.....
14656	1.62	2.00	2.62	2.00	1.65	.....	9.14	8.00	18.09	17.00
14657	1.23	1.00	1.32	1.00	0.35	.....	8.14	8.00	13.91	12.50
14674	0.59	0.50	3.46	3.00	2.45	1.00	6.92	8.00	11.56	11.35
14675	1.11	2.00	3.17	3.00	1.05	1.00	11.03	9.00	18.51	19.40
14792	1.01	1.00	3.51	3.00	0.95	2.00	10.12	10.00	17.55	17.30
14793	3.02	3.00	.....	.....	23.08*	23.00*	.....	.....	29.94	.....
14794	1.07a	1.00	1.46	1.00	1.30	1.00	8.13	8.00	13.86	12.90
14754	1.72a	2.00	3.03	3.00	1.80	.....	7.01	7.00	16.78	17.00
14627	2.01	2.25	4.18	4.00	2.13	1.50	9.52	9.00	21.59	21.48
14712	.....	.....	.....	.....	1.00	.....	14.07	14.00	11.26	11.20
14713	.....	.....	3.03	3.00	0.48	.....	12.38	12.00	13.03	12.60

a. Contains Nitrate of Soda.
* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)
14781	Edelen Bros., Baltimore, Md.	Special Wheat and Grass Mixture	Baltimore
14797	T. W. Eliason, Chestertown, Md.	Our Special Diss. Alkaline Phosphate and Potash	Willoughby
14755	Englar Bros. & Co., Linwood, Md.	No. 1 Ammoniated Bone Phosphate.	Linwood
14756	" " "	No. 2 Ammoniated Bone Phosphate.	Linwood
14757	D. Englar, Jr., Medford, Md.	No. 3 Bone Phosphate....	Medford
14824	Eureka Fertilizer Co., Perryville, Md.	Fish Bone and Potash....	Leslie
14795	" " "	Grain and Grass Mixture.	Perryman
14761	W. S. Farmer & Co., Baltimore, Md.	B. and P. Phosphate	Baltimore
14811	" " "	Clyde Brand	Baltimore
14782	" " "	Dissolved S. C. Rock....	Baltimore
14812	" " "	Fish Mixture	Baltimore
14783	" " "	Harvest Queen Phosphate	Baltimore
14813	" " "	Standard Phosphate.....	Baltimore
14825	Farmers' & Planters' Co., Salisbury, Md.	Fish Mixture	Salisbury
14758	" " "	General Crop Grower	Salisbury
14871	" " "	Special Mixture	Salisbury
14729	Farmers' Fert. Co. of Carroll Co., Westminster, Md.	No. 1 Bone Phosphate....	(S. E. Gordy) Hagerstown
14768	" " "	No. 1 Bone Phosphate....	Westminster
14769	" " "	No. 2 Bone Phosphate....	Carrollton
14766	" " "	No. 3 Bone Phosphate....	Westminster
14872	" " "	Special Mixture.....	Funkstown
14767	" " "	X. X. Bone Phosphate...	(I. Emmert) Uniontown
14759	Farmers' Fer. Co. of Union Bridge, Union Bridge, Md.	No. 1 Bone Phosphate....	Uniontown

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
					Insoluble.		Available.			
	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
14781	1.13	1.00	2.36	2.00	2.00	.....	10.11	9.00	\$17.23	\$ 14.50
14797	.....	.....	2.19	1.50	1.93	.....	11.79	11.00	12.01	10.30
14755	2.30	2.00	1.81	1.50	2.00	.....	9.83	9.50	20.49	18.00
14756	1.18	1.00	2.99	2.40	0.63	.....	9.70	9.80	17.07	15.70
14757	1.55	1.50	2.59	2.00	1.10	1.50	9.85	9.50	18.31	17.35
14824	0.97	.50	2.44	1.00	2.30	.....	8.78	8.00	13.32	9.15
14795	1.10	1.00	1.67	2.00	3.05	.....	10.48	8.00	17.22	13.50
14761	.....	.....	2.37	2.00	0.45	.....	10.09	10.00	10.53	10.00
14811	1.02a	1.00	2.35	2.00	1.30	.....	8.03	8.00	14.47	13.50
14782	.....	.....	.....	.....	0.73	.....	14.51	14.00	11.61	11.20
14812	2.05	2.00	2.39	2.00	1.68	.....	7.71	8.00	17.95	17.00
14783	1.41	1.25	3.18	3.00	1.70	.....	8.76	9.00	17.56	16.38
14813	2.60	2.00	2.58	2.00	1.83	.....	8.80	10.00	21.21	19.00
14825	1.91	3.00	1.86	2.00	1.45	....	9.36	7.00	18.49	19.50
14758	1.04	1.00	1.50	2.00	1.28	.....	12.11	10.00	17.76	15.50
14871	1.89	3.00	5.37	6.00	1.60	.....	8.76	7.00	21.39	23.50
14729	1.37	2.00	3.06	2.50	1.80	2.00	8.40	9.00	16.98	19.30
14768	2.25	2.00	3.78	2.50	1.28	2.00	7.39	9.00	19.56	19.30
14769	1.98	2.50	2.72	2.50	0.83	1.00	8.86	9.00	18.84	20.65
14766	1.12	1.50	2.71	3.00	2.85	1.00	8.02	8.00	15.79	16.65
14872	2.04	2.00	4.71	4.00	1.55	.....	9.40	11.00	21.87	22.00
14767	0.92	1.00	3.02	3.00	1.10	1.00	9.68	9.00	16.36	15.90
14759	1.43	1.50	2.15	1.75	1.68	1.00	9.40	8.50	17.23	15.90

a. Contains Nitrate of Soda.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
14760	Farmers' Fer. Co. of Union Bridge, Union Bridge, Md.	Union Bridge Favorite...	Uniontown.....
14658	Fogle & Miller, Woodsboro, Md.	Maryland Alkaline Phosphate.	Rockville.....
14688	" " "	Maryland Plow Brand....	Baltimore.....
14659	" " "	Maryland Soluble Bone Phosphate.	Rockville.....
14689	" " "	Maryland Sun Guano....	Baltimore.....
14715	Frederick Co. Farmers' Exchange, Frederick, Md.	Ammoniated Bone Phosphate.	Myersville.....
14716	" " "	Fish and Bone Mixture...	Frederick.....
14619	" " "	S. C. Rock and Potash...	Baltimore.....
14714	J. W. Freeman, Great Mills, Md.	Crop Grower.....	Baltimore.....
14822	T. H. Gill, Avalon, Va.	Try Me Fertilizer.....	Baltimore.....
14762	N. I. Gorsuch & Son., Westminster, Md.	Westminster Diss. Raw Bone Phosphate.	Uniontown.....
14690	Griffith & Boyd, Baltimore, Md.	Ammoniated Bone Phosphate.	Baltimore.....
14730	" " "	Ammoniated Soluble Bone	Roxbury.....
14869	" " "	Buyers' Mixture.....	Cordova..... (W. F. Jump)
14717	" " "	Cereal Bone Plant Food..	Baltimore.....
14691	" " "	Fish Bone and Potash....	Baltimore.....
14645	" " "	Harvest Queen Phosphate	Baltimore.....
14874	" " "	Harvest Queen Phosphate	Greensboro..... (C. L. Jarrell)
14718	" " "	H. G. Acid Phosphate....	Meyersville.....
14763	" " "	H. G. Acid Phosphate....	Hampstead.....
14814	" " "	Original Super-Phosphate	Baltimore.....
14646	" " "	Peerless Fertilizer.....	Baltimore.....
14731	" " "	Pure Dissolved Animal Bone.	Roxbury.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14760	1.09	1.50	2.60	2.25	1.98	.....	9.90	8.00	\$17.11	\$15.50
14658	.....	.....	2.38	2.00	2.55	2.00	8.83	10.00	9.95	10.40
14688	1.09	1.00	2.06	2.00	1.20	1.50	9.51	8.00	15.87	14.10
14659	.....	.....	.....	.....	1.08	1.00	14.40	14.00	11.52	11.20
14689	0.92	0.50	1.94	1.00	2.23	1.00	8.58	8.00	12.47	9.35
14715	1.36	1.00	2.20	2.00	2.35	.....	10.04	10.00	17.94	15.50
14716	1.80	2.00	2.21	2.00	2.15	.....	10.04	10.00	19.41	19.00
14619	.....	.....	3.53	3.00	2.98	.....	10.12	10.00	12.23	11.00
14714	1.04	1.00	1.14	1.00	0.40	1.50	8.65	8.00	13.59	13.10
14822	1.84	2.00	2.08	2.00	1.68	.....	11.22	9.00	20.41	18.00
14762	1.51	1.40	2.48	2.25	2.05	1.00	7.85	7.00	16.44	14.55
14690	1.53	2.00	2.06	2.00	1.18	.....	9.71	8.00	17.60	17.00
14730	1.02	1.00	2.71	2.00	1.53	.....	10.33	7.00	17.22	12.50
14869	.....	.....	4.67	5.00	1.23	.....	13.35	12.00	15.60	14.60
14717	0.73	1.00	1.57	2.00	1.08	.....	11.16	8.00	13.28	13.50
14691	2.03	1.75	3.02	3.00	2.50	.....	7.54	7.00	18.67	16.13
14645	1.31	1.25	3.55	3.00	2.70	.....	9.06	9.00	18.28	16.38
14874	1.04	1.25	3.03	3.00	1.53	.....	11.24	9.00	18.52	16.13
14718	.....	.....	.....	.....	1.25	.....	14.56	14.00	11.65	11.20
14763	.....	.....	.....	.....	1.38	.....	13.68	14.00	10.94	11.20
14814	.....	.....	.....	.....	3.35	.....	12.73	12.00	10.18	9.60
14646	0.51a	0.35	2.61	2.00	1.95	.....	8.59	8.00	11.66	9.63
14731	1.47a	2.50	.....	.....	2.83	.....	10.73	10.00	17.01	18.75

a. Contains Nitrate of Soda.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
14880	Griffith & Boyd, Baltimore, Md.	Rock and Potash, 12x5 ...	Cecilton (J. P. Wilson.)
14692	" " "	Royal Potash Guano.....	Baltimore.....
14875	" " "	Royal Potash Guano.....	Greensboro (C. L. Jarrell.)
14719	" " "	Soft Ground Bone Meal ..	Baltimore.....
14693	" " "	Special Alkaline Bone Mix- ture.	Baltimore.....
14866	" " "	Special Alkaline Bone Mixture.	Cecilton (L. W. Davis)
14676	" " "	Special Grain Grower	Ellicott City
14620	" " "	Special Guano.....	Baltimore.....
14873	" " "	Special Guano.....	Greensboro (C. L. Jarrell.)
14694	" " "	Spring Crop Grower	Baltimore.....
14695	" " "	Stable Manure Substitute.	Baltimore.....
14720	" " "	Valley Fertilizer	Myersville
14621	" " "	Vegetable Bone.....	Baltimore.....
14876	" " "	Vegetable Bone.....	Cordova (J. P. Dulin.)
14647	" " "	XX Potash Manure.....	Baltimore.....
14784	Griffith & Turner Co., Bal- timore, Md.	Ammoniated Butchers' Bone.	Reisterstown
14785	" " "	Ground Bone	Reisterstown
14764	" " "	H. G. Acid Phosphate....	Baltimore.....
14765	" " "	Special Mixture.....	Baltimore.....
14786	" " "	Wheat Grower.....	Reisterstown
15125	Hanway, Barnes & McCo- mas, Bel Air, Md.	H. & K. Dissolved Bone..	Bel Air
15126	" " "	H. & K. Special Mixture.	Bel Air
15127	" " "	H. & K. Standard High Grade.	Bel Air

FERTILIZER ANALYSES.

25

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14880	.....	.....	3.58	5.00	3.40	.....	13.50	12.00	\$15.06	\$ 14.60
14692	1.01	1.00	4.02	4.00	2.75	.....	7.23	8.00	15.89	15.50
14875	1.04	1.00	4.25	4.00	1.13	.....	10.18	8.00	18.52	15.50
14719	3.22	3.00	.....	.....	8.58	.....	4.25	11.00	18.95	21.50
14693	.....	.....	2.22	3.00	1.93	.....	12.54	12.00	12.64	12.60
14866	.....	.....	3.13	3.00	1.55	.....	12.68	12.00	13.58	12.60
14676	.....	.....	2.15	2.00	1.50	.....	10.95	10.00	11.21	10.08
14620	1.96	2.25	5.38	5.00	3.08	.....	8.06	9.00	21.53	21.88
14873	1.09	2.25	3.04	5.00	2.33	.....	12.49	9.00	20.28	21.80
14694	2.03	2.00	3.83	4.50	2.23	.....	7.43	6.50	19.26	18.05
14695	2.42	3.50	4.21	4.00	2.80	.....	5.94	5.00	19.74	21.25
14720	0.54	0.50	3.18	3.00	1.50	.....	8.20	8.00	11.93	11.1
14621	2.88	3.00	7.05	7.00	3.10	.....	8.13	8.00	26.50	25.50
14876	2.08a	3.00	5.35	7.00	0.80	.....	11.65	8.00	24.60	25.50
14647	.....	.....	5.19	5.00	1.10	.....	12.13	10.00	15.11	13.00
14784	1.40	1.25	1.78	1.50	1.35	.....	9.32	9.00	16.54	14.88
14785	2.02	2.00	.....	.....	26.19*	50.00†	.....	.....	30.05	.....
14764	.....	.....	.....	.....	1.73	1.00	14.11	14.00	11.29	11.20
14765	0.56a	0.50	2.01	2.00	4.60	1.00	9.67	8.00	12.59	10.35
14786	1.96	1.50	3.25	3.00	2.15	.....	9.81	8.00	20.78	16.25
15125	2.37	2.00	.....	.....	2.35	1.00	10.01	10.00	19.25	17.40
15126	1.13	1.00	2.17	2.00	1.53	1.00	8.69	9.00	15.43	14.90
15127	2.16	2.00	3.24	3.00	2.53	1.00	8.09	8.00	19.90	18.40

a. Contains Nitrate of Soda.
† Total Bone Phosphate.

* Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
15050	S. M. Hess & Bro., Phila-	Ammoniated Bone Super-	Union Mills.....
15166	delphia, Pa. " "	Phosphate. Ground Bone.....	Leslie.....
15051	" " " "	Keystone Bone Phosphate	Union Mills.....
15128	" " " "	Peerless Phosphate.....	Perryman.....
15052	" " " "	Soluble Bone.....	Union Mills.....
15053	" " " "	Soluble Bone and Potash.	Union Mills.....
15000	" " " "	Special Compound.....	Baltimore.....
15001	" " " "	Wheat and Grass Manure.	Baltimore.....
15002	The Home Fertilizer Chemi-	Boykins' Alkaline Bone..	Baltimore.....
15003	cal Works, Baltimore, Md.	Boykins' Cereal Fertilizer	Baltimore.....
15150	" " " "	Boykins' H. G. Acid Phos- phate.	Baltimore.....
14975	The Hubbard Fertilizer Co.,	Alkaline	Baltimore.....
14976	Baltimore, Md. " "	Climax Bone Super-Phos- phate.	Baltimore.....
14977	" " " "	Columbia Gem Phosphate	Baltimore.....
15163	" " " "	Crescent Soluble Crop Producer.	Baltimore.....
14900	" " " "	Dissolved Bone.	Baltimore.....
14978	" " " "	Farmers' I. X. L. Super- Phosphate.	Baltimore.....
14901	" " " "	H. G. Soluble Tennessee Phosphate.	Baltimore.....
15108	" " " "	Oriental Phosphate for Wheat and Grass.	Baltimore.....
15054	" " " "	Royal Ensign.	Baltimore.....
14979	" " " "	Soluble Bone and Potash	Baltimore.....
14877	" " " "	Special Mixture.	Buck Lodge..... (Reid Bros.)
15055	" " " "	Special Mixture of Bone and Potash.	Union Mills.....

FERTILIZER ANALYSES.

27

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
15050	2.25	2.00	2.35	2.00	1.80	.....	7.84	8.00	\$18.79	\$17.00
15166	3.63	4.00	.....	.....	26.50*	20.00*	.....	.....	33.33	..
15051	1.19	1.00	1.55	1.00	1.40	.....	7.88	8.00	14.16	12.50
15128	.....	.....	5.32	5.00	0.43	.....	12.03	12.00	15.03	14.60
15052	.....	.....	.....	.....	0.90	.....	14.58	14.00	11.66	11.20
15053	.....	.....	2.17	2.00	0.60	.....	9.50	10.00	9.89	10.00
15000	1.33a	1.00	4.01	4.00	1.30	1.00	8.25	8.00	17.44	15.90
15001	1.25	1.00	2.11	2.00	1.83	1.00	7.83	8.00	15.05	13.90
15002	.....	.....	2.40	2.00	1.18	2.00	10.92	10.00	11.38	10.40
15003	2.01a	2.00	2.56	2.00	1.63	.....	9.32	8.00	19.57	17.00
15150	.....	.....	.....	.....	2.20	2.00	14.54	14.00	11.63	11.20
14975	.....	.....	3.92	3.00	0.88	.....	11.65	12.00	13.42	12.60
14976	1.05	1.00	3.90	4.00	2.30	.....	7.68	7.00	16.18	14.50
14977	0.70	0.50	1.55	1.00	1.48	.....	9.47	8.00	11.88	9.15
15163	.....	.....	.....	.....	1.28	.....	11.22	10.00	8.98	8.00
14900	2.27	2.50	.....	.....	3.23	.....	11.15	10.00	20.39	18.75
14978	1.60	2.00	2.97	2.00	2.48	.....	7.83	8.00	17.39	17.00
14901	.....	.....	.....	.....	1.03	.....	14.02	14.00	11.22	11.20
15108	1.20	1.00	1.37	1.00	1.48	.....	9.63	8.00	15.79	12.50
15054	2.83	3.00	2.95	4.00	4.33	.....	6.35	8.50	20.94	22.50
14979	.....	.....	2.70	2.00	0.88	.....	9.72	10.00	10.66	10.00
14877	1.28	1.00	2.95	2.00	2.08	.....	9.91	10.00	18.17	15.50
15055	.....	.....	4.17	4.00	1.98	.....	9.00	10.00	11.77	12.00

* Total Phosphoric Acid.

a. Contains Nitrate of Soda.

No.	Name and address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)
15044	The Hubbard Fertilizer Co., Baltimore, Md.	Standard Bone Super- Phosphate.	Halfway
14980	" " "	Warranted Pure Raw Bone.	Baltimore.
14902	" " "	Wheat Growers' Jewel...	Baltimore.
14963	M. P. Hubbard & Co., Baltimore, Md.	Celebrated Dissolved Bone for General Use.	Laurel
15151	" " "	Excelsior Bone Phosphate	Baltimore.
14853	" " "	Excelsior Bone Phosphate	Libertytown..... (M. Beall)
14930	" " "	Farmers' Old Economy...	Baltimore.
15145	" " "	Fish Bone and Potash....	Two Johns.....
15006	" " "	Harvest King for Wheat and Grass.	Walkersville.....
14964	" " "	Raw Bone Meal.....	Laurel.....
14892	" " "	Rock and Potash.....	Preston
15056	" " "	7% Bermuda Guano.....	(F. H. Chambers) Baltimore.....
15004	" " "	Soluble Bone and Potash for Wheat and Corn.	Walkersville
15005	" " "	Soluble S. C. Bone Phos- phate.	Walkersville
14893	" " "	Special Mixture.....	Preston
15092	Wilbur W. Hubbard, Ches- tertown, Md.	Bone Special Super-Phos- phate.	(Z. T. Reynolds) Tolchester.....
15093	" " "	Our A. A. Bone Super- Phosphate.	Chestertown
15094	" " "	Our Imperial Compound..	Lynch.....
15095	" " "	Our Victor Fertilizer....	Lynch.....
15096	" " "	Special Mixture.....	Lynch.....
14981	" " "	Special Mixture.....	Baltimore.....
15172	S. L. Lamberd Co., Balti- more, Md.	Boss Fertilizer.....	Baltimore.
15173	" " "	Favorite Fertilizer.....	Baltimore.

FERTILIZER ANALYSES.

29

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
15044	1.93a	2.00	2.53	3.00	3.20	.....	7.67	8.00	\$18.24	\$18.00
14980	4.84	4.00	.....	.....	21.85*	45.00†	.....	.....	29.69	.....
14902	1.37	1.50	2.07	2.00	2.93	.....	8.55	9.00	16.59	16.25
14963	1.69	2.00	2.85	2.00	1.60	1.00	10.00	9.00	19.41	18.40
15151	1.24	1.00	2.35	2.00	1.30	.....	9.84	8.00	17.05	13.50
14853	1.83	1.00	2.54	2.00	1.10	.....	10.14	8.00	19.53	13.50
14930	0.68	0.50	2.14	2.00	0.83	1.00	9.51	8.00	12.30	10.35
15145	0.33	0.25	1.62	1.00	0.60	.....	8.66	6.00	9.83	6.68
15006	1.01	1.00	3.16	3.00	0.68	1.00	10.18	10.00	17.15	16.90
14964	3.89	4.00	.....	.....	18.17*	40.00†	.....	.....	.....	.....
14892	.....	.....	3.68	5.00	0.45	.....	13.11	12.00	14.26	14.60
15056	7.34	7.00	5.51	4.00	1.23	.....	5.70	7.00	37.39	35.50
15004	.....	.....	2.60	2.00	0.53	2.00	10.61	10.00	11.20	10.40
15005	.....	.....	.....	.....	0.48	.....	14.98	14.00	11.98	11.20
14893	2.08	1.50	4.15	5.00	1.53	.....	11.06	10.00	23.10	20.25
15092	1.50	1.25	3.08	3.00	1.13	.....	9.74	9.00	18.52	16.38
15093	1.93	2.00	3.09	3.00	2.00	.....	8.92	8.00	19.57	18.00
15094	1.56a	1.75	3.05	3.00	1.53	.....	9.79	8.00	18.91	17.13
15095	1.06	1.00	2.09	1.00	1.40	.....	8.77	8.00	15.13	12.50
15096	0.73	.....	1.54	.....	0.40	.....	12.64	.....	14.29	.....
14981	0.73	.....	1.18	.....	1.70	.....	9.63	.....	11.78	.....
15172	1.40	2.00	4.85	4.50	3.35	1.00	8.67	6.50	19.76	18.40
15173	1.02	1.00	2.40	2.00	1.3 ^o	1.00	9.48	8.00	15.98	13.90

a Contains Nitrate of Soda. * Total Phosphoric Acid. † Contains Sulfate of Potash.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
15175	S. L. Lamberd Co., Baltimore, Md.	Special Anne Arundel Mixture.	Baltimore.....
15176	" " "	Truck Phosphate.....	Baltimore.....
14965	Joshua Linthicum, Annapolis, Md.	Special Fish and Potash..	Laurel.....
14982	Listers' Agricultural Chem. Works, Baltimore, Md.	Alkaline Bone.....	Baltimore.....
15057	" " "	Alkaline Bone, No. 1.....	Baltimore.....
15058	" " "	Celebrated Ground Bone Acidulated.	Baltimore.....
15043	" " "	Corn and Potato Fertilizer.	Jessup.....
14983	" " "	G. Brand.....	Baltimore.....
14984	" " "	Harvest Queen Phosphate	Baltimore.....
14985	" " "	Special Crop Grower.....	Baltimore.....
14870	" " "	Special Crop Grower.....	LaPlata..... (J. H. Mitchell,)
15110	" " "	Special Wheat Fertilizer.	Baltimore.....
14944	" " "	Standard Pure Bone Super-Phosphate of Lime.	Gaithersburg.....
15059	" " "	Wheat and Rye Fertilizer	Baltimore.....
15007	D. B. Martin Co., Philadelphia, Pa.	Acid Phosphate.....	Baltimore.....
15129	" " "	Claremont Vegetable Compound.	Aberdeen.....
14966	" " "	Corn and Cereal Special..	Ellicott City.....
14945	" " "	Crop Producer.....	Silver Spring.....
15049	" " "	Dissolved Organic Compound.	Halfway.....
14986	" " "	One Eight and Four.....	Baltimore.....
14867	" " "	One Eight and Four.....	Blacks..... (R. H. Vandyke)
15060	" " "	Pure Animal Bone and Potash.	Baltimore.....
14946	" " "	Pure Dissolved Animal Bone.	Silver Spring.....

FERTILIZER ANALYSES.

31

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
15175	1.11a	3.00	2.44	3.00	2.98	1.00	8.18	8.00	\$15.70	\$21.90
15176	2.30	4.00	4.98	4.00	1.65	1.00	8.54	7.00	22.23	25.40
14965	2.24	2.00	3.99	3.00	2.88	1.00	5.47	6.00	18.45	16.40
14982	.....	.....	2.32	2.00	0.65	.....	10.24	10.00	10.64	10.00
15057	.....	.....	5.04	5.00	0.43	.....	12.31	12.00	14.98	14.60
15058	3.18	3.00	.....	.....	6.00	12.00*	6.45	.....	19.98	.....
15043	2.32	2.00	3.01	3.00	3.08	.....	9.07	8.00	21.43	18.00
14983	1.19	1.00	4.12	4.00	2.05	2.00	8.06	8.00	17.17	16.30
14984	1.58	1.50	2.21	2.00	2.02	.....	9.03	9.00	17.58	16.25
14985	1.19	1.00	1.27	1.00	1.35	.....	6.76	7.00	12.74	11.50
14870	1.11	1.00	1.76	1.00	1.20	.....	7.42	7.00	13.55	11.50
15110	2.32	2.00	3.21	3.00	2.38	.....	7.85	8.00	20.13	18.00
14944	3.11	3.00	2.37	.00	3.28	.....	9.01	9.00	23.58	21.50
15059	2.37	2.00	2.10	2.00	3.08	1.20	7.82	8.00	19.45	17.48
15007	.....	.....	.....	.....	2.58	.....	14.58	14.00	11.66	11.20
15129	3.41a	3.00	5.50	5.00	2.25	.....	8.13	7.00	26.47	22.50
14966	2.02a	2.00	2.23	2.00	3.05	.....	8.44	8.00	18.96	17.00
14945	1.31	1.25	.....	.....	2.98	.....	10.01	10.00	15.79	14.38
15049	1.60	1.25	2.21	2.00	2.00	.....	9.76	9.00	18.37	15.38
14986	1.28	1.00	4.04	4.00	2.55	.....	9.25	8.00	18.79	15.50
14867	1.23	1.00	3.80	4.00	2.80	.....	9.63	8.00	18.86	15.50
15060	2.05	2.00	1.55	2.50	9.60	16.00*	13.90	.....	26.47	.....
14946	2.25	2.00	.....	.....	2.75	.....	12.03	12.00	21.01	19.00

^a Contains Nitrate of Soda.
 * Total Phosphoric Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer	Place of Sampling. (and Sampler when not the College.)
14947	D. B. Martin Co., Philadelphia, Pa.	Pure Ground Bone.....	Silver Spring.....
15189	" " "	Pure Raw Bone Meal....	Aberdeen.....
15061	" " "	Sure Grower.....	Lineboro.....
15062	F. Mehring, Bruceville, Md.	Acid Phosphate.....	Bruceville.....
15063	" " "	Dissolved Raw Bone.....	Taneytown.....
15008	" " "	General Crop Grower....	Walkersville.....
15009	" " "	Twenty-six Dollar Phosphate.	Walkersville.....
15190	The Miller Fertilizer Co., Baltimore, Md.	Ammoniated Dis. Bone...	Forest Hill.....
15152	" " "	Buyer's Mixture.....	Baltimore.....
15111	" " "	Cinch Phosphate, Rock and Potash.	Ellicott City.....
14904	" " "	Club Brand.....	Baltimore.....
14941	" " "	Dissolved Raw Bone.....	Baltimore.....
15130	" " "	Ground Bone.....	Forest Hill.....
15010	" " "	Harvest Queen.....	Baltimore.....
14905	" " "	Hustler Phosphate.....	Baltimore.....
15112	" " "	Potato and Vegetable Grower.	Rogers.....
14906	" " "	S. C. Rock.....	Baltimore.....
15011	" " "	Standard Phosphate.....	Baltimore.....
14907	" " "	W. G. Phosphate.....	Baltimore.....
15012	Nichodemus & Grimes, Monrovia, Md.	Sullivan's S.S.S.	Monrovia.....
14967	G. Ober & Sons Co., Baltimore, Md.	Dissolved Animal Bone...	Laurel.....
15191	" " "	Dissolved Bone Phosphate	Baltimore.....
14987	" " "	Dissolved Bone Phosphate and Potash.	Baltimore.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14947	2.05	2.00			25.70*	22.90*			\$29.34	
15189	4.35	4.50			24.90*	21.00*			34.45	
15061	1.33	1.00	1.63	1.00	2.85		9.07	8.00	16.50	\$12.50
15062					2.25	1.00	17.53	15.00	14.02	12.00
15063	1.83	2.00			1.33	1.00	17.96	14.00	24.90	21.40
15008	1.09	1.00	1.26b	1.25b	4.08	1.00	11.54	11.00	18.50	16.40
15009	1.60	1.00	1.78	1.00	4.35	1.00	12.58	12.00	21.70	16.90
15190	2.02	2.00	3.02	2.00	0.54	1.50	9.47	8.00	19.78	17.60
15152			3.43	3.00	2.40		11.69	12.00	13.26	12.60
15111			2.48	2.00	1.55	2.00	9.53	10.00	10.41	10.40
14904	0.58	0.50	2.09	2.00	0.40	1.50	8.83	8.00	11.26	10.45
14941	2.67	2.50			2.50	2.00	11.57	11.00	21.92	20.55
15130	4.65	4.50			21.86*	21.00*			29.52	
15010	1.26a	1.25	3.70	2.75	0.98	1.50	9.35	9.00	17.85	16.73
14905	1.11a	1.00	1.54	1.00	0.33	1.50	8.14	8.00	13.70	13.10
15112	1.83a	2.00	4.03	4.00	1.65	1.50	8.38	8.00	19.48	19.60
14906					0.90		15.60	14.00	12.48	11.20
15011	3.02a	3.00	3.84	3.00	1.68	1.50	7.50	8.00	22.58	22.10
14907	0.61	0.50	1.08	1.00	0.48	1.50	7.47	7.00	9.30	8.65
15012	2.05	2.00	2.56	2.00	2.30		9.10	9.00	19.76	18.00
14967	3.29a	3.00			1.78		13.32	10.00	25.55	20.50
15191					1.00		15.56	14.00	12.45	11.20
14987			2.18	2.00	0.48		11.30	10.00	11.32	10.00

Contains Nitrate of Soda

* Total Phosphoric Acid. b. Contains Sulfate of Potash. a. Contains Nitrate of Soda

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
14940	G. Ober & Sons Co., Baltimore, Md.	Farmers' Mixture	Baltimore.....
14938	" " "	Farmers' Standard Ammoniated Phosphate.	Baltimore.....
15113	" " "	Fish, Bone and Potash Mixture.	White Marsh.....
14939	" " "	Independent Ammo. Super Phosphate.	Baltimore.....
15097	" " "	McKenney's Compound..	Price.....
15098	" " "	McKenney's No. 1 D....	Centreville.....
14968	" " "	Pure Bone Meal	Ellicott City.....
15114	" " "	Pure Raw Bone Meal....	Baltimore.....
14969	" " "	Special Plant Food	Ellicott City.....
14943	" " "	Standard Potash Compound.	Baltimore.....
15064	John L. Paradee & Co., Pocomoke City, Md.	Special Potato Guano....	Pocomoke City....
15099	Patapsco Guano Co., Baltimore, Md.	Alkaline Phosphate	Booker's Wharf...
15065	" " "	Baltimore Soluble Phosphate.	Greenmount.....
14928	" " "	Coon Brand Guano.....	Baltimore.....
15066	" " "	Dissolved Raw Bone....	Snow Hill.....
14929	" " "	Grain and Grass Producer.	Baltimore.....
15013	" " "	H. G. Bone and Potash ..	Baltimore.....
15067	" " "	Peninsula Potash Mixture	Baltimore.....
15115	" " "	Phospho-Potash.....	Baltimore.....
15045	" " "	Pure Dissolved S. C. Bone	Rohrersville.....
14988	" " "	Pure Ground Bone.....	Baltimore.....
15068	" " "	Sea Gull Guano	Baltimore.....
14915	" " "	Soluble Bone and Potash.	Baltimore.....

No.	NITROGEN, Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14940	1.14	1.00	2.13	2.00	1.73	.....	10.32	9.00	\$17.13	\$14.50
14938	2.07a	2.00	2.18	2.00	1.95	.....	10.26	9.00	20.47	18.00
15113	3.09a	3.25	3.81	3.50	2.08	.....	8.52	8.00	23.98	22.88
14939	1.27a	1.00	1.33	1.00	1.98	.....	9.83	8.00	16.40	12.50
15097	1.54	1.00	2.78	2.35	3.98	.....	10.21	8.00	19.97	13.85
15098	2.73	2.50	3.27	2.50	3.68	.....	9.37	8.00	23.67	19.25
14968	2.88	3.00	.....	.....	24.08*	22.00*	.....	.....	30.20	.....
15114	4.85	4.00	.....	.....	21.08*	21.00*	.....	.....	29.58	.....
14969	2.39a	2.00	5.95	5.00	3.18	.....	7.93	9.00	23.52	21.00
14943	.....	.....	5.02	5.00	0.78	.....	13.09	12.00	15.65	14.60
15064	4.07	4.00	6.35	6.00	1.50	.....	6.39	6.00	27.59	26.00
15099	.....	.....	3.22	3.00	1.18	.....	11.86	12.00	12.95	12.60
15065	.....	.....	2.02	2.00	0.88	.....	11.06	11.00	11.05	10.80
14928	1.16	1.00	3.49	3.00	1.25	.....	8.87	9.00	16.92	15.50
15066	2.87	2.50	.....	.....	2.20	.....	11.91	12.00	22.84	20.75
14929	1.16	1.00	4.18	4.00	1.53	.....	7.87	8.00	16.72	15.50
15013	.....	.....	5.66	5.00	0.45	.....	11.01	11.00	14.56	13.80
15067	.....	.....	5.01	5.00	0.55	.....	11.53	12.00	14.34	14.60
15115	.....	.....	3.02	3.00	0.93	1.00	6.32	6.00	8.27	8.00
15045	.....	.....	.....	.....	1.23	.....	14.20	14.00	11.36	11.20
14988	4.35	4.50	.....	.....	21.85*	45.00†	.....	.....	30.39	.....
15068	1.18a	1.00	1.19	1.00	1.88	.....	7.60	8.00	13.67	12.50
14915	.....	.....	2.47	2.00	0.58	.....	10.45	10.00	10.95	10.00

a. Contains Nitrate of Soda.

*Total Phosphoric Acid.

†Total "Bone Phosphate."

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
14916	Patapsco Guano Co., Baltimore, Md.	Special Wheat Compound	Baltimore.
15116	" " "	Tobacco and Potato Fertilizer.	Cockeysville.
15146	Piedmont Mt. Airy Guano Co., Baltimore, Md.	Caroline Mixture.	Marydel.
15014	" " "	Dissolved Bone Phosphate.	Baltimore.
15147	" " "	Potash Goods.	Baltimore.
14989	" " "	Farmers' H. G. Bone and Potash.	Queenstown.
15154	" " "	H. G. S. C. Bone.	Baltimore.
14990	" " "	Insula Guano for Corn, Oats and Other Crops.	Baltimore.
14860	" " "	Leverings' Ammoniated Bone.	Baltimore.
14855	" " "	Leverings' Ammoniated Bone.	Two Johns. (B. F. Edgell.)
15155	" " "	Leverings' Excelsior.	Preston. (J. P. Cook.)
15156	" " "	Leverings' Harvest Queen	Baltimore.
14991	" " "	Leverings' I. X. L. Crop Grower.	Baltimore.
15015	" " "	Leverings' Standard.	Baltimore.
15069	" " "	Peerless Phosphate.	Baltimore.
14920	" " "	Perfection Guano.	Baltimore.
14851	" " "	Perfection Guano.	Washington Grove. J. M. Cavanaugh.
15100	" " "	Piedmont Economy.	Massey.
14918	" " "	Piedmont Farmers' Favorite.	Baltimore.
14919	" " "	Piedmont Soluble Bone and Potash.	Baltimore.
14992	" " "	Piedmont Special Potash Mixture.	Baltimore.
14993	" " "	Piedmont Wheat Compound.	Baltimore.
15016	" " "	Pure Raw Bone Mixture.	Baltimore.

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14916	2.27	2 25	2.91	2 50	3.23	.....	10.86	9.00	\$23.01	\$19.38
15116	2.03	2 00	4.27	4.00	1.80	.....	7.79	8.00	19.89	19.00
15146	1.26	1.00	2.10	2.00	0.33	.....	8.21	8.00	14.85	13.50
15014	.....	.....	1.86	1.00	0.73	1.00	10.25	10.00	10.21	9.20
15147	....	.....	2.70	2.00	0.30	.....	9.60	10.00	10.44	10.00
14989	.....	.....	.....	.....	0.18	.....	15.13	14.00	12.10	11.20
15154	0.71a	0 50	2.48	2.00	0.53	.....	6.93	7.00	10.62	9.35
14990	1.22a	1 00	3.24	3.00	0.98	1.00	9.32	9.00	17.22	15.90
14860	1.06	1.00	3.59	3.00	0.65	1.00	9.63	9.00	17.19	15.90
14855	1.02	1.00	3.18	3.00	0.90	1.00	9.21	9.00	16.32	15.90
15155	1.07a	1.00	2.00	1.00	0.75	.....	8.70	8.00	14.75	12.50
15156	1.50a	1.00	2.68	2.00	0.55	1.00	7.66	8.00	15.81	13.90
14991	.....	.....	3.09	3.00	0.73	1.00	9.57	10.00	10.90	11.20
15015	2.02a	2.00	3.51	3.00	1.23	1 00	8.06	8.00	19.13	18.40
15069	1.03a	1.00	1.94	1.50	0.65	2.00	8.87	8.00	14.68	13.80
14920	1.91a	2.00	4.17	5.00	2.33	1.00	8.10	8.00	19.89	20.40
14851	1.72	2.00	5.92	5.00	1.03	1.00	8.79	8.00	21.14	20.40
15100	0.38	0.25	2.83	.00	0.70	.....	10.27	10.00	12.52	10.88
14918	1.67	1.00	5.27	4.00	1.40	.....	10.11	8.00	21.79	15.50
14919	.....	.....	2.25	2.00	0.30	.....	7.51	8.00	8.32	8 40
14992	.....	.....	5.09	5.00	0.83	1.00	9.44	10.00	12.81	13.20
14993	.....	.....	5.53	5.00	0.38	1.00	11.65	12.00	14.93	14.80
15016	1.26a	1 25	3.24	2.00	3.05	4.00	7.44	8.00	16.31	15.98

a. Contains Nitrate of Soda.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
15017	Piedmont Mt. Airy Guano Co., Baltimore, Md.	Royal Ammoniated Bone and Potash.	Baltimore.....
14890	" " "	Special Mixture.....	Preston..... (W. P. Taylor.)
14891	" " "	Special Mixture.....	Preston..... (J. H. Butler.)
14949	" " "	Special Wheat and Grass Phosphate.	Gaithersburg
15131	Pollock Fertilizer Co., Baltimore, Md.	Ammoniated Bone Phosphate.	Glen Cove.....
15070	" " "	Dissolved Bone and Potash	Snow Hill
15018	" " "	Dissolved S. C. Bone.....	Baltimore.....
15019	" " "	Owl Brand Guano.....	Emmitsburg
15157	" " "	Soft Ground Bone.....	Baltimore.....
15158	" " "	Special Wheat Grower...	Baltimore.....
15020	" " "	Victor Bone Phosphate...	Emmitsburg
15101	L. M. Price, Smyrna, Delaware.	Corbit Mixture.....	Kennedysville.....
14950	The Ramsburg Fertilizer Co., Frederick, Md.	Alkaline Phosphate.....	Boysds
14951	" " "	Ammoniated Bone Phosphate.	Silver Spring.....
14878	" " "	Ammoniated Bone Phosphate.	Buck Lodge..... (Reid Bros.)
14952	" " "	Dissolved Bone Super-Phosphate.	Germantown.....
15021	" " "	Excelsior Half and Half..	Myersville
14953	" " "	Excelsior Plant Food.....	Silver Spring.....
14954	" " "	Old Virginia Compound...	Germantown.....
15022	" " "	Queen	Monrovia
15132	Rasin-Monumental Co., Baltimore, Md.	Corn and Tomato Fertilizer.	Glen Cove.....
15023	" " "	H. G. Bone and Potash...	Baltimore.....
14936	" " "	National Crop Compound.	Baltimore.....

FERTILIZER ANALYSES.

39

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
15017	1.41a	1.30	3.55	3.00	1.13	1.00	6.79	6.00	\$ 15.73	\$13.95
14890	2.00a	2.00	4.62	4.00	2.03	.....	7.84	9.50	20.27	20.50
14891	2.03a	2.00	5.62	4.00	1.85	.....	7.92	9.50	21.39	20.50
14949	1.86a	2.00	3.33	2.00	1.43	1.00	8.13	8.50	18.54	17.90
15131	2.12	2.00	2.24	2.00	1.65	1.00	7.91	8.00	18.23	17.40
15070	.....	.....	3.83	4.00	0.58	1.00	10.90	10.00	12.67	12.20
15018	.....	.....	.....	.....	0.90	1.00	14.02	14.00	11.22	11.20
15019	0.68	0.50	1.80	1.50	0.88	1.00	7.35	7.00	10.24	9.05
15157	3.10	3.00	.....	.....	17.55*	14.09*	.....	.....	22.96	.....
15158	1.20	1.00	2.23	2.00	1.43	1.00	7.78	8.00	14.78	13.90
15020	.....	.....	2.31	1.00	1.48	1.00	8.00	9.00	9.01	8.40
15101	.....	.....	4.03	5.00	0.48	.....	12.12	12.00	13.83	14.60
14950	.....	.....	2.06	2.00	1.95	2.00	11.06	10.00	11.30	10.40
14951	1.14	1.00	2.01	2.00	3.05	2.00	9.91	10.00	17.13	16.30
14878	1.06	1.00	2.18	2.00	2.30	2.00	11.32	10.00	18.13	16.30
14952	.....	.....	.....	.....	1.67	2.00	14.01	14.00	11.21	11.20
15021	1.14	1.00	1.22b	1.00b	1.55	2.00	13.27	10.00	19.34	15.50
14953	1.95	2.00	2.31	2.00	1.40	.....	10.76	9.00	20.46	18.00
14954	1.40	1.50	2.02	2.00	2.80	2.00	10.59	9.00	18.63	17.05
15022	0.72	0.50	1.48	1.00	5.05	2.00	9.06	8.00	12.26	9.55
15132	.....	.....	2.39	3.00	4.00	1.00	6.02	6.00	8.01	8.00
15023	.....	.....	5.41	5.00	0.35	1.00	13.04	12.00	15.91	14.80
14936	1.23	1.00	4.61	4.00	1.83	1.00	8.02	8.00	17.67	15.90

a Contains Nitrate of Soda.
b Contains Sulfate of Potash.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
15164	Rasin-Monumental Co., Baltimore, Md.	Pure Raw Bone.....	Baltimore.....
14926	" " "	Rasin's Acid Phosphate..	Baltimore.....
15024	" " "	Rasin's Best Wheat and Grass Producer.	Baltimore.....
14909	" " "	Rasin's Bone and Potash Fertilizer.	Baltimore.....
14921	" " "	Rasin's Dissolved Bone...	Baltimore.....
14955	" " "	Rasin's Dissolved Bone...	Gaithersburg
14925	" " "	Rasin's Empire Guano...	Baltimore.....
14924	" " "	Rasin's I. X. L. Fertilizer	Baltimore.....
14911	" " "	Rasin's Special Bone and Potash. 10x5.	Baltimore.....
15171	" " "	Rasins' Special Bone and Potash. 12x3.	Queen Anne.
14937	" " "	Rasin's Special Fish and Potash Mixture.	Baltimore.....
14912	" " "	Rasin's X. X. X. Fertilizer.	Baltimore.....
14910	" " "	Special Formula for Corn and Buckwheat.	Baltimore.....
15117	" " "	Special for Vines and Vegetables.	Baltimore.
15025	" " "	Wheat, Corn and Oats Mixture.	Baltimore.....
14922	" " "	Wm. Penn Crop Grower..	Baltimore.....
15177	W. E. Robinson, Vale, Md.	Special Mixture.....	Girdletree
15071	Chas. Schaeffer, Westminster, Md.	Big Gun.....	Westminster
15072	" " "	Governor Ammoniated and Concentrated Phosphate	Westminster
15073	" " "	Leader	Tyrone
15074	" " "	Super A.....	Uniontown.....
15133	The Scott Fertilizer Co., Elkton, Md.	Bush River Compound...	Aberdeen.....
15179	" " "	Corn and Oats Grower...	Elkton.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
15164	4.55	4.50	.....	.....	20.83*	22.50*	.....	.....	\$30.18	.....
14926	.....	.....	.....	.....	0.63	1.00	14.89	14.00	11.91	\$11 20
15024	1.71	1.50	3.08	3 00	2.85	1.00	7.86	8.00	18.07	16.65
14909	.....	.....	2.88	2.00	1.75	1.00	10.06	10.00	11.28	10.20
14921	2.22	2.00	.....	.....	4.15	1.50	10.59	10.00	20.02	17.60
14955	2.30	2.00	.....	.....	4.95	1.00	10.01	10.00	20.04	17.40
14925	2.06	2.00	2.46	2.00	2.20	1.50	7.56	8.00	18.11	17.60
14924	1.22	1.00	3.23	3.00	2.70	1.00	8.84	9.00	17.42	15.90
14911	.....	.....	5.33	5.00	1.23	1.00	10.77	10.00	14.20	13.20
15171	.....	.....	4.13	3.00	1.15	.....	13.77	12.00	15.38	12.60
14937	2.08	2.00	3.76	3.00	2.95	1.00	6.28	6.00	18.50	16.40
14912	1.74	2.00	4.83	5.00	1.53	1.00	8.83	8.00	20.36	20.40
14910	.....	.....	3.55	3.00	2.28	1.00	7.42	6.00	9.95	8.00
15117	1.30	1.00	7.29	8.00	1.55	.....	8.44	8.00	20.90	19.50
15025	1.37	0.50	2.17	2.00	3.23	1.00	7.89	8.00	16.15	10.35
14922	1.26	1.00	1.47	1.00	2.85	1.00	8.13	9.00	15.15	13.90
15177	2.15a	2.00	5.02	5.00	0.35	.....	8.22	8.00	20.91	20.00
15071	2.10	2.00	3.20	2.00	0.58	.....	11.25	10.00	22.03	19.00
15072	1.63	1.50	2.80	2.50	1.03	.....	9.78	9.00	18.70	16.75
15073	1.36	1.00	1.94	1.50	0.98	.....	8.82	8.00	15.91	13.00
15074	1.03	0.75	1.26	1.00	1.13	.....	8.03	8.00	13.35	10.03
15133	3.74a	4.00	7.03	7.00	2.05	.....	7.94	7.00	28.88	28.00
15179	0.72	0.50	2.62	2.00	1.03	.....	8.85	8.00	12.43	10.15

* Total Phosphoric Acid.

a. Contains Nitrate of Soda.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler when not the College.)
15180	The Scott Fertilizer Co., Elkton, Md.	Grain Special.....	Elkton
15181	" " "	Potato and Truck Special.	Elkton
15182	" " "	Pure Ground Raw Bone..	Elkton
15183	" " "	Standard Phosphate.....	Elkton
15184	" " "	Sure Growth Compound..	Elkton
15167	" " "	Sure Growth Super-Phosphate.	Fair Hill
15185	" " "	Tip Top Soluble Bone	Elkton
15103	" " "	12x3 Soluble Bone and Potash	Sudlersville.....
15102	" " "	12x5 Soluble Bone and Potash.	Georgetown
15186	" " "	Wheat and Grass Grower.	Elkton
14956	Seneca Elevator Co., Seneca, Md.	Half-and-Half	Seneca
14957	" " "	One Eight and One	Seneca
14882	M. L. Shoemaker & Co., Philadelphia, Pa.	Swift Sure Guano.....	Ridgely..... (J. M. Short)
15134	Smith, Rouse & Webster, Bel Air, Md.	Formula No. 1 Wheat and Grass Grower.	Perryman
15135	" " "	Formula No. 2.....	Perryman
15136	" " "	Ground Bone.....	Perryman
15137	" " "	Pure Dissolved Bone.....	Belcamp.....
15138	" " "	Pure Raw Bone Meal	Belcamp.....
14958	The Southern Fertilizer Co., York, Pa.	Ammoniated Dissolved Bone.	Rockville.....
15026	" " "	Dissolved Bone Phosphate	Baltimore
14934	" " "	Dissolved Bone Phosphate	Baltimore
14959	" " "	Farmer's Choice Brand..	Rockville.....
14932	" " "	Farmers' Mixture.....	Baltimore

FERTILIZER ANALYSES.

43

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
15180	0.94	0.50	5.24	4.00	0.78	.....	10.03	10.00	\$16.71	\$13.75
15181	1.88	2.00	5.91	5.00	3.63	.....	7.32	7.00	21.26	19.00
15182	5.35	4.00	.....	.....	20.95*	22.00*	.....	.....	32.76	.....
11183	1.96	1.50	3.32	2.00	1.23	.....	9.78	8.00	20.45	15.25
15184	4.10a	4.00	7.58	7.00	2.10	.....	7.58	7.00	30.35	28.00
15167	2.59	2.00	3.71	3.00	1.60	2.00	9.65	10.00	23.07	20.80
15185	.....	.....	.....	.....	1.98	.....	15.35	14.00	12.28	11.20
15103	.....	.....	3.38	3.00	1.47	.....	12.06	12.00	13.32	12.60
15102	.....	.....	5.30	5.00	2.03	.....	12.92	12.00	16.05	14.60
15186	0.78	0.50	3.20	2.00	0.45	.....	10.17	10.00	14.16	11.75
14956	1.26	.....	3.50	.....	1.62	.....	8.50	.....	17.06	.....
14957	0.78	1.00	1.10	1.00	1.18	.....	9.87	8.00	11.97	12.50
14882	2.16a	2.00	5.80	5.00	2.28	.....	9.93	8.00	24.20	20.00
15134	2.02a	2.00	2.77	2.00	0.40	1.50	9.04	9.00	19.04	18.60
15135	1.15a	1.00	2.12	2.00	1.05	1.50	10.30	9.00	16.87	15.10
15136	4.76	4.50	.....	.....	23.30*	20.00*	.....	.....	31.45	.....
15137	2.82	2.50	.....	.....	1.65	2.00	12.60	11.00	23.13	20.55
15138	4.71	4.50	.....	.....	20.88*	21.50*	.....	.....	32.01	.....
14958	2.25	2.00	2.61b	2.50b	1.75	.....	9.39	10.00	21.10	20.00
15026	.....	.....	.....	.....	0.85	.....	14.71	14.00	11.77	11.20
14934	.....	.....	.....	.....	0.68	.....	15.10	14.00	12.08	11.20
14959	1.20	1.00	2.27	2.00	1.10	.....	8.89	9.00	15.80	14.50
14932	.....	.....	2.22	2.00	0.78	.....	10.35	10.00	10.66	10.00

* Total Phosphoric Acid. b: Contains Sulfate of Potash.
a Contains Nitrate of Soda.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)
14933	Southern Fertilizer Co., York, Pa.	Ox Brand Bone and Potash Mixture.	Baltimore.....
15178	" " "	Pure Bone Meal.....	Kensington.....
14960	" " "	Royal Wheat and Grass Grower.	Germantown.....
14935	" " "	Soluble Bone and Potash.	Baltimore.....
14961	" " "	Special Brand for all Crops	Kensington.....
15139	" " "	Special Phosphate.....	Forest Hill.....
15027	Geo. W. Stockdale, Thurmont, Md.	Ammoniated Super-Phosphate.	Thurmont.....
15090	H. S. Stouffer, New Windsor, Md.	Butcher House Phosphate	New Windsor.....
15091	" " "	Wheat Grower Phosphate	New Windsor.....
14994	Wm. H. Street & Co., Fallston, Md.	Ammoniated Diss. Bone..	Baltimore.....
15028	" " "	High Grade Bone Phosphate.	Baltimore.....
15140	" " "	S. C. Rock.....	Fallston.....
14970	E. A. Talbott, Ellicott City, Md.	Grain and Grass Grower..	Ellicott City.....
15118	H. S. Taveau & Co., Baltimore, Md.	Bone Compound.....	Baltimore.....
15159	" " "	Bone Mixture.....	Baltimore.....
15075	" " "	Dissolved S. C. Bone.....	Baltimore.....
15076	" " "	Florida Phosphate.....	Baltimore.....
15160	" " "	Pure Ground Bone Meal..	Baltimore.....
15119	" " "	Special Compound.....	Baltimore.....
15077	" " "	Special Wheat Mixtures..	Baltimore.....
15078	" " "	Wheat and Grass Compound.	Baltimore.....
15153	Geo. E. Thawley, Centerville, Md.	Special Wheat Formula No. 1.	Baltimore.....
15047	I. P. Thomas & Son Co., Philadelphia, Pa.	S. C. Phosphate.....	Hancock.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
14933	.....	.....	2.72	2.00	0.50	.....	8.67	8.00	\$9.76	\$ 8.40
15178	3.33	4.00	.....	.....	14.31*	40.00†	.....	.....	22.27	.....
14960	0.70	0.50	1.36	1.00	1.03	.....	7.74	8.00	10.21	9.15
14935	.....	.....	2.03	2.00	0.85	.....	11.33	11.00	11.26	10.80
14961	.....	.....	6.02	6.00	0.35	.....	9.69	10.00	13.84	14.00
15139	2.01	2.00	5.82	5.00	1.35	.....	7.03	8.00	20.43	20.00
15027	1.40	1.00	2.83	2.00	1.08	.....	10.03	9.00	18.19	14.50
15090	0.46	0.75	3.85	2.50	0.35	1.00	8.97	8.00	12.71	11.73
15091	0.41	0.50	3.01	2.00	1.30	2.00	10.32	7.00	12.97	9.75
14994	1.51a	1.50	2.16	2.00	1.20	1.50	10.21	9.00	18.14	16.85
15028	2.70a	2.50	4.16	3.00	1.80	1.50	8.01	8.00	22.34	20.35
15140	.....	.....	.....	.....	1.40	.....	14.05	14.00	11.24	11.20
14970	1.88a	2.00	3.28	3.00	1.78	.....	10.80	9.00	21.37	19.00
15118	1.24a	1.00	2.19	2.00	1.43	.....	7.70	8.00	14.80	13.50
15159	1.03a	1.00	3.37	2.50	1.38	.....	8.84	10.00	15.97	16.00
15075	.....	.....	.....	.....	0.88	.....	14.14	14.00	11.31	11.20
15076	.....	.....	.....	.....	0.70	.....	14.19	14.00	11.35	11.20
15160	3.10	3.00	.....	.....	17.14*	38.00†	.....	.....	22.97	.....
15119	.....	.....	2.29	2.00	0.58	.....	10.54	10.00	10.84	10.00
15077	.....	.....	2.52	2.50	0.38	1.00	11.67	11.00	11.94	11.50
15078	.....	.....	2.59	2.50	0.38	.....	10.86	11.00	11.36	11.30
15153	1.06	1.00	2.48	2.00	1.98	.....	10.64	9.00	17.62	14.50
15047	.....	1.00	.....	.....	0.20	1.00	15.26	14.00	12.21	11.20

a Contains Nitrate of Soda.

* Total Phosphoric Acid.

† Total Bone Phosphate.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling, (and Sampler, when not the College.)
15046	D. A. Thomas, Hagerstown, Md.	Bone Mixture.....	Breathardsville....
15079	Wm. B. Tilghman Co., Salis- bury, Md.	Acid Phosphate.....	Salisbury.....
15080	" " "	Bone Tankage Mixture...	Snow Hill.....
15081	" " "	Fish Bone and Potash Mixture.	Salisbury.....
15082	" " "	Fish Mixture.....	Salisbury.....
15083	" " "	Mixture B.....	Salisbury.....
15084	" " "	Standard Fish Mixture...	Salisbury.....
15085	E. W. Truitt & Co., Salis- bury, Md.	Fish Mixture, X. X.....	Salisbury.....
14914	Turner & Sons, Betterton, Md.	Bone Phosphate for Wheat and Grass.	Baltimore.....
15104	Tuscarora Fertilizer Co., Baltimore, Md.	Acid Phosphate.....	Kennedyville.....
14917	" " "	Alkaline.....	Baltimore.....
14927	" " "	Animal Bone.....	Baltimore.....
15088	" " "	Big-4-Four.....	Baltimore.....
15032	" " "	Bone and Potash.....	Baltimore.....
15170	" " "	Crop Special.....	Blue Ball.....
15161	" " "	Special Crop Grower.....	Baltimore.....
14995	" " "	Standard Phosphate.....	Baltimore.....
15033	" " "	York State Special.....	Baltimore.....
15168	The J. E. Tygert Co., Phila- delphia, Pa.	Ammoniated Super-Phos- phate.	Childs.....
15169	" " "	Bone Phosphate.....	Childs.....
15086	" " "	Golden Harvest Phosphate	Snow Hill.....
15087	" " "	Standard Bone Phosphate	Snow Hill.....
15029	J. Tyson & Sons., Freder- ick, Md.	Ammoniated Super-Phos- phate.	Ijamsville.....

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
15046	2.03	2.00	2.51	2.00	2.68	.....	10.01	10.00	\$20.70	\$ 19.00
15079	.....	.....	.....	.....	1.13	.....	14.71	14.00	11.77	11.20
15080	2.02	2.00	2.15	2.00	1.45	.....	9.53	8.00	19.33	17.00
15081	.84	1.00	1.94	2.00	1.73	.....	10.73	10.00	13.81	15.50
15082	2.01	2.00	2.25	2.00	1.28	.....	9.99	8.00	19.79	17.00
15083	3.84a	4.00	3.43	3.00	1.55	.....	9.08	8.00	26.57	25.00
15084	2.35	2.50	2.43	2.00	1.18	.....	8.93	8.00	20.06	18.75
15085	2.24	2.50	2.64	2.00	1.85	2.00	8.16	8.00	19.38	19.55
14914	1.84	1.75	2.62	2.50	1.60	.....	9.83	10.00	19.53	18.63
15104	.....	.....	.....	.....	2.60	.....	13.80	14.00	11.04	11.20
14917	.....	.....	5.28	5.00	.63	.....	10.38	10.00	13.71	13.00
14927	3.30	3.00	.....	.....	24.40*	24.00*	.....	.....	32.77	.....
15088	2.05	2.00	4.10	4.00	1.70	.....	7.82	7.00	19.78	18.00
15032	.....	.....	2.16	2.00	2.03	....	10.23	10.00	10.75	10.00
15170	2.02	2.00	5.69	5.00	2.33	.....	8.44	8.00	22.13	20.00
15161	1.20	1.00	2.40	2.00	1.13	.....	9.17	8.00	16.22	13.50
14995	2.09	2.00	2.48	2.00	2.05	.....	8.52	8.00	19.14	17.00
15033	1.13	1.00	4.01	4.00	1.65	.....	8.54	8.00	17.17	15.50
15168	1.52	1.50	1.78	1.50	1.63	1.00	8.03	8.00	15.78	15.15
15169	2.49a	2.25	2.83	2.50	3.10	2.00	8.01	9.00	20.80	20.18
15086	.67	.50	2.41	2.00	.60	1.00	8.02	8.00	11.30	10.35
15087	2.01a	2.00	2.68	2.00	1.20	1.00	8.30	8.00	18.50	17.40
15029	1.38	1.00	1.51	2.00	2.03	.....	9.09	10.00	16.24	15.50

a. Contains Nitrate of Soda.

* Total Phosphate Acid.

No.	Name and Address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler when not the College.)
15030	J. Tyson & Sons, Frederick, Md.	Dissolved South Carolina.	Frederick
14962	" " "	Half - and - Half Super Phosphate.	Barnesville
15031	" " "	Special Mixture.....	Ijamsville
15105	E. S. Valliant & Sons, Church Hill, Md.	Grain Grower	Barclay
15034	" " "	Ideal Phosphate.....	Baltimore.
15106	" " "	Wheat and Grass Fertilizer.	Price
15035	Virginia-Carolina Chemical Co., Richmond, Va.	Corn and Buckwheat Special.	Baltimore
15048	" " "	Fish Bone and Potash....	Hancock
14923	" " "	14 % Acid Phosphate....	Baltimore.....
15036	" " "	H. G. Bone and Potash...	Baltimore.....
15037	" " "	National Ammoniated Guano.	Baltimore.....
15038	" " "	Special Compound for Wheat.	Baltimore.....
15039	" " "	Standard Bone and Potash	Baltimore.....
14913	" " "	Standard Crop Grower ..	Baltimore.....
14971	W. H. D. Warfield & Co., Sykesville, Md.	Special Wheat and Grass Mixture.	Sykesville
15148	S. L. Webster & Son, Cambridge, Md.	Bone and Potash.....	Two Johns.
15149	" " "	Old Dorset Ammoniated Bone Fertilizer.	Two Johns.....
15142	Harry W. Whistler, Fountain Green, Md.	Crop Grower.....	Bel Air
15143	" " "	Dissolved Animal Bone...	Bel Air
15144	" " "	Pure Bone Meal.....	Bel Air
15141	O. M. Whittaker, Reckord, Md.	Complete Fertilizer	Bel Air.....
14996	The Wooldridge Orchilla Co., Baltimore, Md.	Cyclone.....	Baltimore.....
15165	" " "	Faultless Ammoniated Bone Phosphate.	Baltimore.....

FERTILIZER ANALYSES.

49

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
15030	.....	.....	.....	.....	0.60	.....	14.78	14.00	\$11.82	\$11.20
14962	1.02	1.25	1.84	1.00	1.43	.....	7.89	10.00	13.87	15.38
15031	.89	1.00	1.82	1.00	1.58	.....	9.20	8.00	12.61	12.50
15105	.68	0.50	2.72	2.00	0.68	1.00	9.01	8.00	12.45	10.35
15034	1.25	1.00	2.39	2.00	1.25	2.00	8.52	9.00	15.79	15.30
15106	1.23a	1.00	1.44	1.00	0.55	.....	9.68	8.00	15.65	12.50
15035	.....	.....	3.45	3.00	1.63	1.00	7.14	6.00	9.49	8.00
15048	2.21	2.00	3.48	3.00	0.90	1.50	8.01	8.00	19.59	18.60
14923	.....	.....	.....	.....	1.15	1.00	15.68	14.00	12.54	11.20
15036	.....	.....	5.66	5.00	0.48	1.00	14.23	12.00	17.14	14.80
15037	1.05	1.00	4.36	4.00	1.35	1.00	9.95	8.00	18.53	15.90
15038	1.38	1.00	1.43	1.00	3.95	1.00	7.33	8.00	15.17	12.90
15039	.....	.....	2.09	2.00	2.05	1.00	10.02	10.00	10.52	10.20
14913	2.05	2.00	2.41	2.00	1.73	1.50	8.10	8.00	18.38	17.60
14971	1.40	1.00	1.41	1.00	4.05	1.00	6.66	8.00	14.59	12.90
15148	.....	.....	2.04	2.00	3.53	.....	10.67	10.00	11.29	10.00
15149	.85	0.50	4.05	4.00	2.83	2.50	6.96	6.00	13.17	11.05
15142	1.84	1.50	2.15	2.00	1.75	.....	10.00	8.00	19.29	15.25
15143	2.04	2.00	.....	.....	3.33	.....	12.10	12.00	20.57	19.00
15144	2.63	2.00	.....	.....	23.10*	22.90*	.....	.....	28.17	.....
15141	2.12	2.00	2.46	2.00	2.30	.....	8.38	8.00	19.18	17.00
14996	3.03a	3.00	5.22	3.00	1.30	2.00	7.75	8.00	24.10	22.30
15165	2.16	2.00	3.04	2.00	1.88	2.00	6.49	8.00	17.84	17.80

a Contains Nitrate of Soda.
* Total Phosphoric Acid.

No.	Name and address of Manufacturer.	Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)
15120	The Wooldridge Orchilla	Old Hickory Phosphate .	Baltimore.....
15040	Co., Baltimore, Md.	Orchilla Guano.....	Baltimore.....
15041	" " "	Tiger Bone Stock Phos- phate.	Baltimore.....
15162	" " "	Virginia Bell Potash Mix- ture.	Baltimore.....
15042	The Robt. A. Wooldridge	Champion Giant Phos- phate.	Baltimore.....
14997	Co., Baltimore, Md.	Chiefton Bone Stock Phosphate.	Baltimore.....
14972	" " "	Farmer's Favorite Cereal Compound.	Ellicott City.....
15089	" " "	Florida Acid Phosphate ..	Baltimore.....
15121	" " "	Florida Acid Phosphate ..	White Hall.....
14998	" " "	German Potash Mixture..	Baltimore.....
14973	" " "	H. G. Dissolved Animal Bone.	Ellicott City.....
14999	" " "	Liberty Bell Potash Mix- ture.	Baltimore.....
14942	" " "	Old Sledge Phosphate....	Baltimore.....
14974	" " "	Pure Raw Bone.....	Ellicott City.....
15122	" " "	Special Potato Fertilizer.	White Hall.....
15123	" " "	Triumph Pure Bone Phos- phate.	White Hall.....
15124	" " "	Tuckahoe Bone Meal....	White Hall.....
15107	Wright & Lowe, Centre- ville, Md.	Enterprise Phosphate for Wheat and Grass.	Centreville.....

FERTILIZER ANALYSES.

51

No.	NITROGEN Calculated as AMMONIA.		POTASH, K ₂ O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
	Found.	Guaranteed.	Found.	Guaranteed.	Insoluble.		Available.			
					Found.	Guaranteed.	Found.	Guaranteed.		
15120	1.14a	1.00	2.94	2.50	1.35	1.50	8.61	8.00	\$16.08	\$ 14.60
15040	.....	.....	.....	.....	14.30	13.00	7.53	4.00	11.74	8.40
15041	1.34a	1.25	6.18	4.50	1.23	1.50	7.86	8.00	19.22	17.48
15162	.....	.....	3.25	3.00	1.33	1.00	12.46	12.00	13.49	12.80
15042	1.25	1.00	2.46	2.00	1.10	1.50	9.01	9.00	16.29	15.10
14997	2.05	2.00	2.52	2.00	1.50	1.50	8.02	8.00	18.32	17.60
14972	.73	0.50	2.30	2.00	0.78	1.00	7.02	7.00	10.64	9.55
15089	.....	.....	.....	.....	0.83	1.00	13.74	14.00	10.99	11.20
15121	.....	.....	.....	.....	0.40	1.00	15.28	14.00	12.22	11.20
14998	.....	.....	2.31	2.00	0.55	1.00	9.84	10.00	10.29	10.20
14973	2.76	2.50	.....	.....	2.23	1.00	12.06	12.00	22.61	21.15
14999	.....	.....	3.13	3.00	0.20	1.00	12.29	12.00	13.00	12.80
14942	.....	.....	5.25	5.00	0.40	1.00	12.07	12.00	14.99	14.80
14974	3.81	4.00	.....	.....	21.25*	45.00†	.....	.....	28.66	.....
15122	2.02	2.00	4.82	5.00	1.70	1.50	7.94	9.00	20.51	21.60
15123	1.69	1.50	4.12	4.00	1.85	2.00	8.02	8.00	18.80	18.05
15124	3.22	3.00	.....	.....	8.00	1.00	5.98	14.00	20.45	24.90
15107	1.21a	1.00	2.29	2.00	1.05	.....	9.02	9.00	15.97	14.50

a. Contains Nitrate of Soda.
† Total Bone Phosphate.

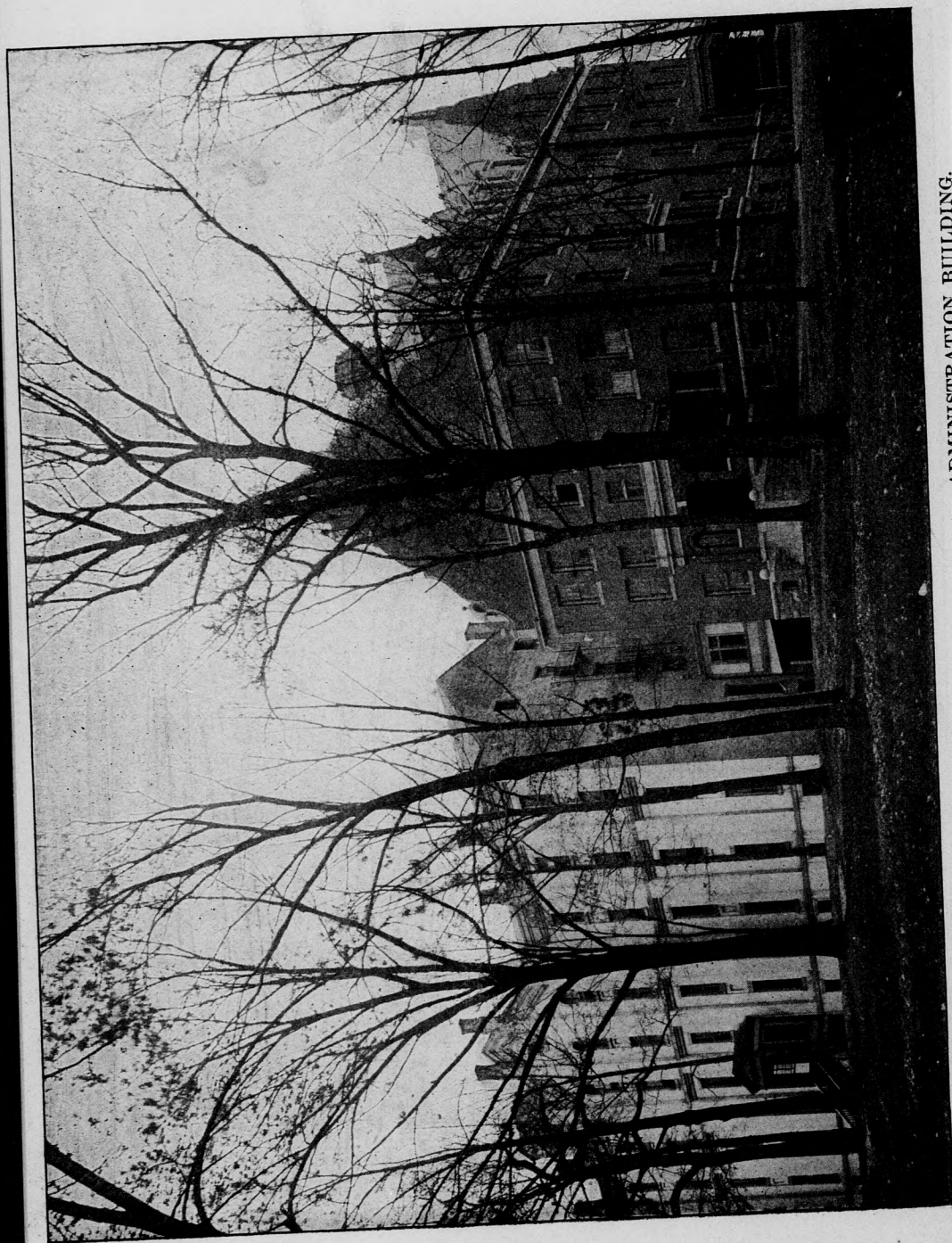
* Total Phosphoric Acid.

*Table Showing Mechanical Analysis of Bone.**(The Chemical Analysis is Given in the Preceding Table.)*

No.	NAME AND ADDRESS OF MANUFACTURER.	NAME OF FERTILIZER.	Fine Less than 1-50 inch.	Fine-Medium 1-25 to 1-50 inch.	Medium 1-25 to 1-12 inch.	Coarse Larger than 1-12 inch.
14638	American Agricultural Chemical Co., New York, N. Y.	Fine Ground Bone.....	61	26	13	0
14661	American Agricultural Chemical Co., New York, N. Y.	Pure Ground Bone.....	40	35	24	1
14662	American Agricultural Chemical Co., New York, N. Y.	Pure Ground Bone.....	42	29	26	3
14650	Alexandria Fertilizer and Chemical Co., Alexandria, Va.	Raw Bone Meal.....	53	26	19	2
14670	Armour Fertilizer Works, Baltimore, Md.	Bone Meal.....	71	23	6	0
14685	Armour Fertilizer Works, Baltimore, Md.	Raw Bone Meal.....	31	34	30	5
14747	Baltimore Pulverizing Co., Baltimore, Md.	Pure Raw Bone.....	58	26	15	1
14654	Baugh & Sons Co., Baltimore, Md.	Raw Bone Meal.....	48	45	7	0
14883	Baugh & Sons Co., Baltimore, Md.	Raw Bone Meal.....	45	48	7	0
14790	The Berg Co., Philadelphia, Pa.	Raw Bone.....	32	40	27	1
14673	C. E. Bond, Spencerville, Md....	Pure Ground Bone.....	28	34	31	7
14655	The Bryant Fertilizer Co., Alexandria, Va.	Fine Ground Raw Bone.....	36	36	28	0
14793	Josiah Cope & Co., Lincoln University, Pa.	Ground Steamed Bone.....	64	25	10	1
14785	Griffith & Turner Co., Baltimore, Md.	Ground Bone.....	68	22	9	1
15166	S. M. Hess & Bro., Philadelphia, Pa.	Ground Bone.....	51	28	20	1
14980	The Hubbard Fertilizer Co., Baltimore, Md.	Warranted Pure Raw Bone.....	35	27	20	18
14947	The D. B. Martin Co., Philadelphia, Pa.	Pure Ground Bone.....	65	23	10	2
15189	The D. B. Martin Co., Philadelphia, Pa.	Pure Raw Bone Meal.....	59	20	18	3
15130	The Miller Fertilizer Co., Baltimore, Md.	Ground Bone.....	26	37	32	5
14968	G. Ober & Sons Co., Baltimore, Md.	Pure Bone Meal.....	61	27	11	1
15114	G. Ober & Sons Co., Baltimore, Md.	Pure Raw Bone Meal.....	25	38	35	2
14988	Patapsco Guano Co., Baltimore, Md.	Pure Ground Bone.....	41	32	25	2
15157	The Pollock Fertilizer Co., Baltimore, Md.	Soft Ground Bone.....	38	32	27	3
15164	Rasin-Monumental Co., Baltimore, Md.	Pure Raw Bone.....	39	36	24	1
15182	The Scott Fertilizer Co., Elkton, Md.	Fine Ground Raw Bone.....	40	36	24	0
15136	Smith, Rouse & Webster, Bel Air, Md.	Ground Bone.....	25	43	31	1
15138	Smith, Rouse & Webster, Bel Air, Md.	Pure Raw Bone Meal.....	44	47	9	0
15178	The Southern Fertilizer Co., York, Pa.	Pure Bone Meal.....	53	32	13	2
15160	H. S. Taveau & Co., Baltimore, Md.	Pure Ground Bone Meal.....	42	31	24	3
14927	Tuscarora Fertilizer Co., Baltimore, Md.	Animal Bone.....	72	21	7	0
15144	Harry W. Whistler, Fountain Green, Md.	Pure Bone Meal.....	55	32	12	1
14974	The Robert A. Wooldridge Co., Baltimore, Md.	Pure Raw Bone.....	43	31	26	0

CONTENTS OF THIS NUMBER.

	Page.
Schedule of Valuations	2- 3
Tabulated Analyses of Fertilizers.....	4-51
Mechanical Analyses of Bone	-52
Administration Building and Dormitory of the College. (Illustration)	-54
Chemical Laboratory, Mechanical Building, Lib- rary and Gymnasium, and Morrill Hall. (Illustration)	-55
College Advertisement	-56



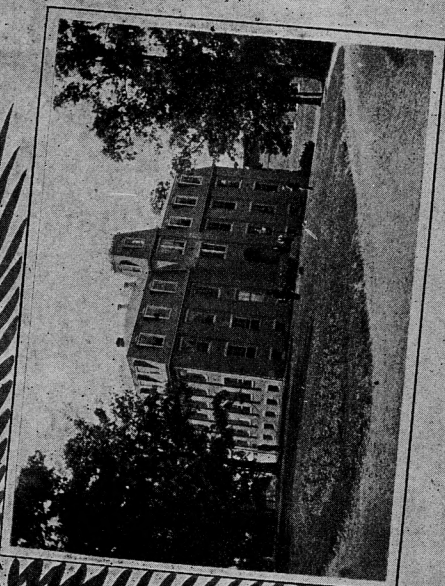
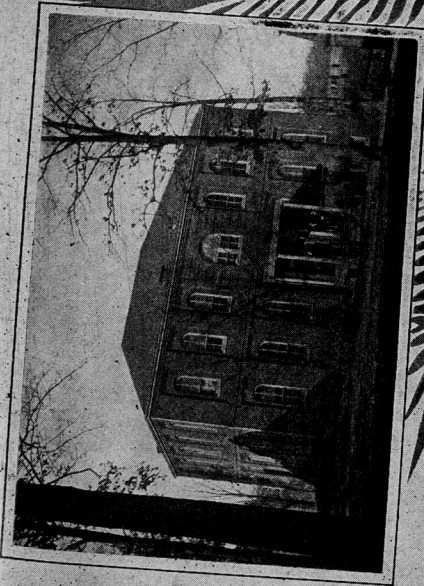
ADMINISTRATION BUILDING.

DORMITORY.

ADMINISTRATION BUILDING.



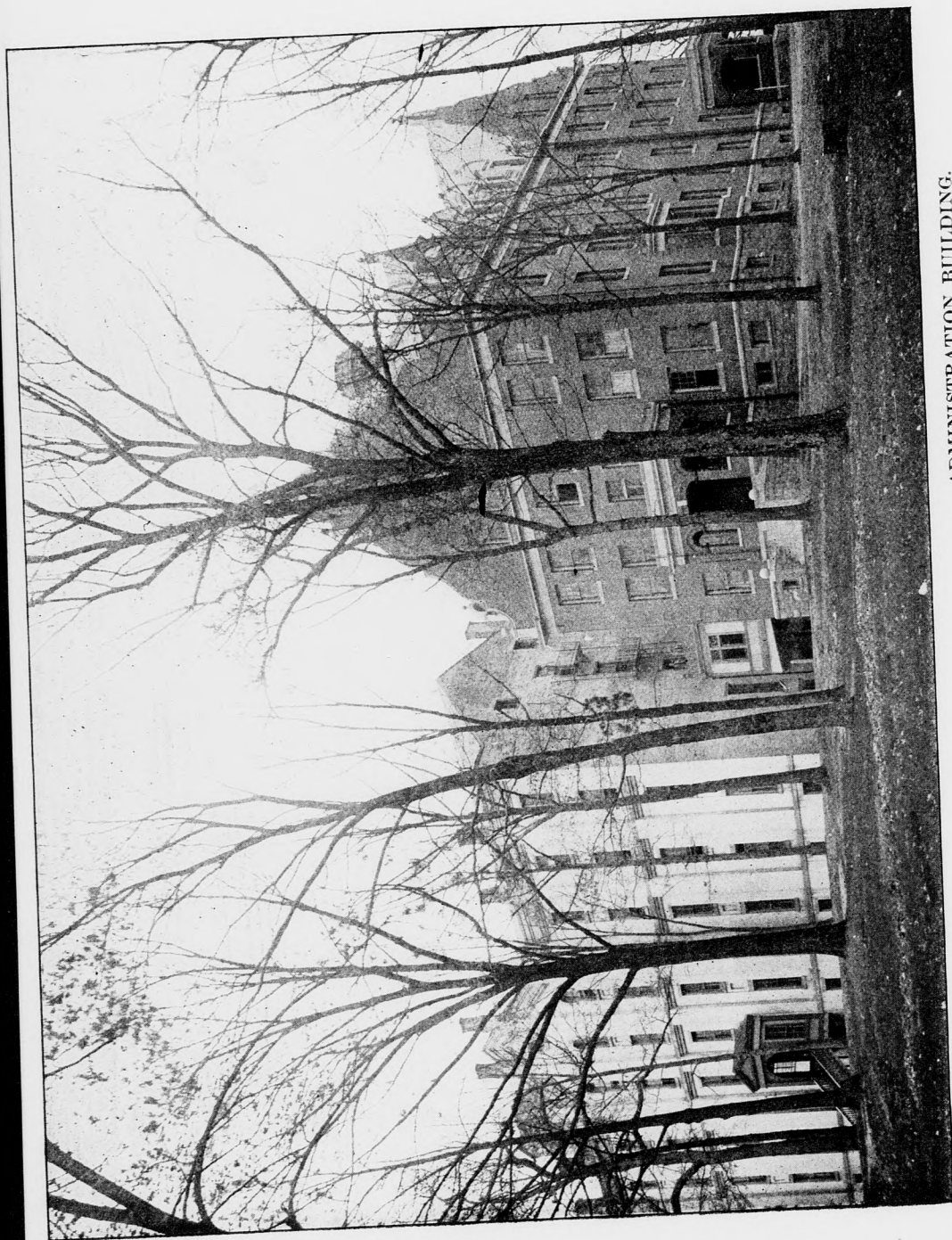
DORMITORY.



LIBRARY AND GYMNASIUM.
MORRILL HALL.



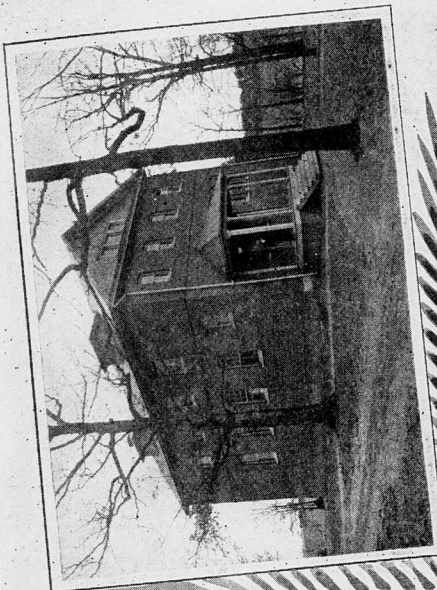
CHEMICAL LABORATORY.
MECHANICAL BUILDING.



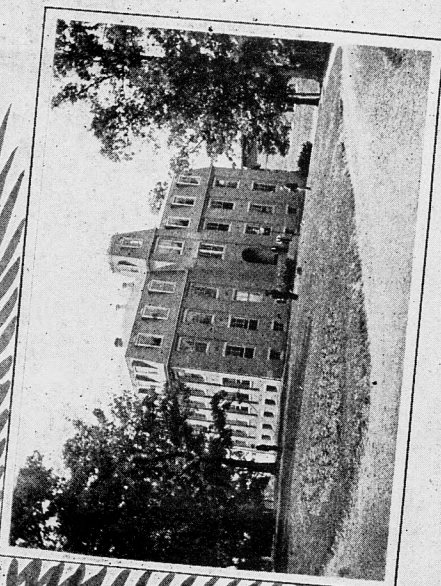
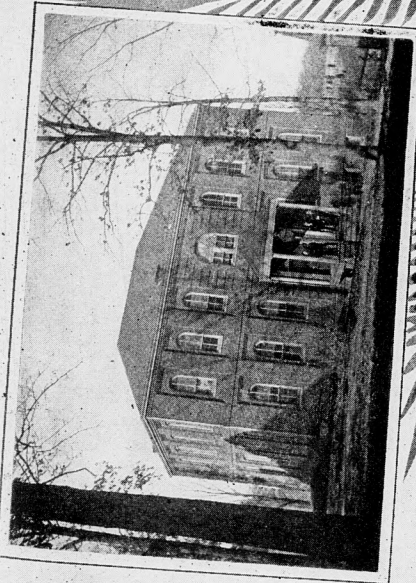
ADMINISTRATION BUILDING.

DORMITORY.

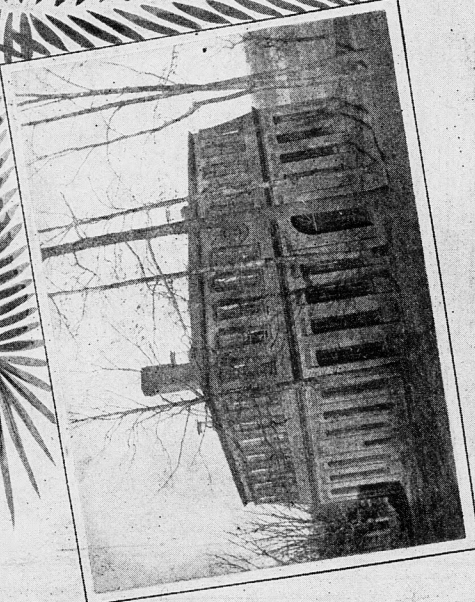
ADMINISTRATION BUILDING.



DORMITORY.



LIBRARY AND GYMNASIUM.
MORRILL HALL.



CHEMICAL LABORATORY.
MECHANICAL BUILDING.

IF YOU WISH TO BECOME

A Scientific Farmer,
An Engineer,
A Chemist,
A Teacher.

In short, if you wish to secure a scientific and literary training that will fit you for an honorable pursuit in life,

— THE —

Maryland Agricultural College

Offers Exceptional Advantages.

TUITION FREE IN ALL COURSES.

THE EXPENSE FOR
BOARD, BOOKS AND INCIDENTALS IS VERY MODERATE.

Spring Term Opens Monday, March 26, 1906.

FOR VIEWS OF THE PRINCIPAL BUILDINGS SEE PAGES 54 AND 55.

The College is located eight miles north of Washington, D. C., on the B. & O. Railroad, and City and Suburban Electric Railroad. For Catalogue, and other Information, Address

R. W. SILVESTER, PRESIDENT,
COLLEGE PARK, MD.